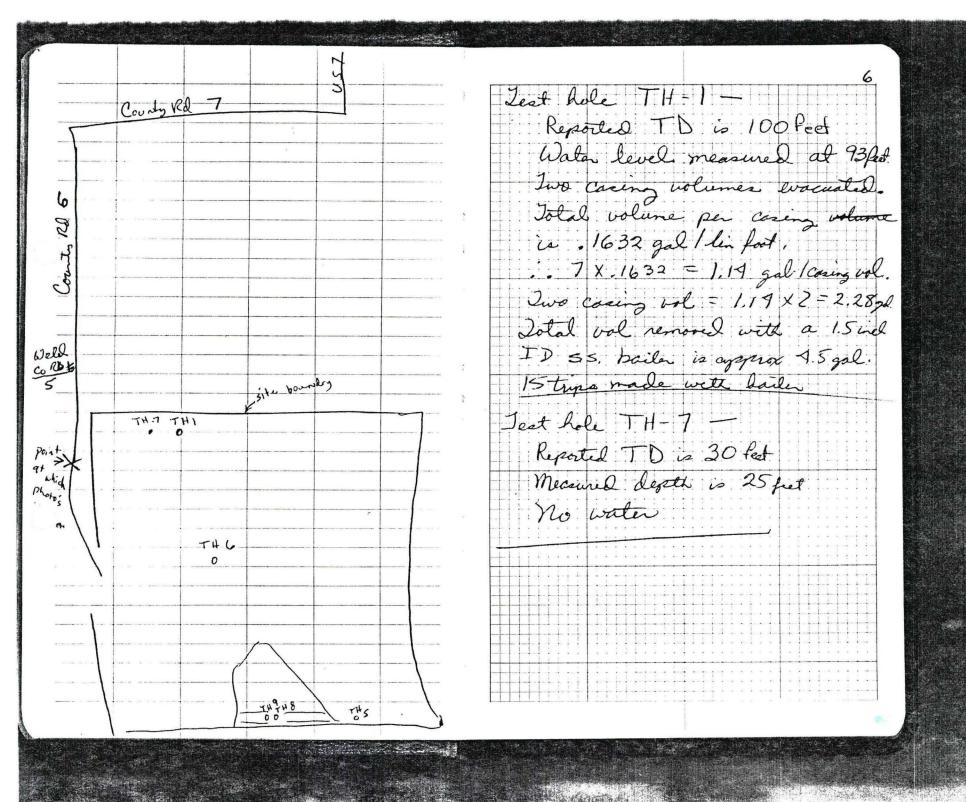


PAULD Columbine Landfill 55 Site Inspection Late: June 12, 1984 Jemp: 73°F Time: Arrived on acte 1 pm Inspectors: Scot Winters - CDH Dennis Hotore - CDH Jodan us met Mr. Steve Organski on site at 1 pm. The weather is partly cloudy with the possibility of rain showers. Mr. Organise presented the inspectors with a site plan indicating the property boundies for both the Pratt property and the Colo Landill Inc property. The plan also indicates the locations of all test hole locations on both sites. The test bolis are cased with 2' PVC pipe. Today we are onsite to purge all wells (test holes) containing 14,0.



Zest Lole TH-9 Time 31pm Reported TD 80 feet Measure depth SI feel will not bail water as This almost TD and all mud at bottom of well Jest hole TH-8 -Reported TD 30 feet Measured water level at 225 feet Iwo casing valumes = 2.38 gal Seven tryes wild bailer = 2.1 gal Test Lole TH-5 Reported TD 80' Measured depth 50 feet (No Wite)

Lest hole TH-6 Jemp≈70°F Reported depth 60' June is 199m Measured water level of 28 feet Calculated vol per casing is -5,2224 gal Made 32 trips with bailer. Evacuated a total of 4.8 gale. Extel site at 5 m Will return Tomarrow with emple bottles o chone * a Columbine Landfill 665-9108 Site Inspection Dale: June 13, 1984 Jemp: 60°F Time : arrived at the ate of 8 3 Inspectors. Dennis Holovee CDH Scot Winters - CDH Mark Mullice EqE Mr. Mullie is providing tack assistance to us. Reported that rain occurred a site the previous night.

Analyses Tag No. TRAFFIC Report Numbers C.O.C. BNA 9501 4 1601 84017062 9502 9502 9503 9504 1. 11 VOA 9505 24023092 metals 9506 MH 0976

Poll # 1 photos 1-5 view of total site We met Steve On Ong Onzynski at 8 an and proceed to go on site at 85% we arrived at TH-1 Measured depth of Water is -92.5 Reet .. 7.5 fait of H2O X.16 = 1.2 gal/coin, We evacuated to casing volumes. A composite grab was collected and I letere of sample the for volitiles and two but VOA's were collected. a netalo sample was filter trough a 45 micron filte utalizing a rutroge pressurized band filter. Color of fitter was coaler gray The Conductivity of of the payele The pH of the paycle was 480

Test Hole - 8 Traffic Report Numbers C-O-C Analyses Tay No BNA 9507 1602 84017062 9509 9510 VOA 9511 H 1602 24023032 Metals 9512 MH 0977 34020082

TH-8 3m Water Revel measured @ 27 feet Time 25m Weather Coole & cloudy A composite grab was collected for volite organics in Wilsten botter and two VOA 40 ml lattles Bailed composite grab sample was very sitty. We had to applied baile down bale to collect enough somple national. a metali sample was filtered through a 45 meron fetter utaliging a sutroger pressurged band The conductivity @ 22°C war 8600 The pH @ 22°C was 6.9

Analyses Tog No. Traffic Report Numbers C-O-C BNA 9513 H 1603 84017012 9514 " 9515 11 9516 " VOA 9517 H 1603 24023042 Matak 95 18 mH 0978 34020082

TH-B These samples were taken to do a field check of our decor ad singling procedures The samples were collected first in the failer and then transfered to the stamless steel backet. The metals complet was new through the barrel fetter first and The a portion of this natural was used in obtaining to pH + Cordinationty readings. & I water was used first for the metals sample and then the Organics sangles were collected to with organics free Hro how Jister Scutting The conductivity CB 22°C was 5.4 The pH @ 220C was for 6.447.8 Lot # 732022

SW-1 Dottle Analysias Simple Tag Traffic Report lot number COC H 1604 BNA 9519 84017072 9520 9521 9522 VOA 9523 24023042 Metals 9524 MH 0979 34020082

Raining 5W - 1 (call this water 20 nd) 12 (a receive Collection pol) The surface water number 1 is a burned upo and crossing the major Very little water was in the part at to the of sampling The samples were collected by use of a long retal rod w/a lat clay attached to the end. Each hollo was clarped at place I lowered into the pind for felling. The VOA'S were not aland its place no was the plantie Vite netals bottle. Instead these sangles were taken by filling on arber 16ta showe and the frashing the ool into too other The Conductivity @ 23 C m 2400 to The pH @ 23°C was 8. Rain stated at 2 300 pm and colonel

Analyses	Snyle Tay II	SW- Traffic	2 Report	Bothelot- Number C-O-C	
BN A	9525 9526 9527 9528	1+ 1 11	605	84017072 11 11 11	
VDA	9529	# /	6 05	24023042	
Muchals	9530	m#	0980	34020082	

Still raining SW-Z SW-2 is a surface water pard site designated an a compace water runoff control pond. This Rand was sampled on the south ride, of Saysling procedure were identical to SW-1. Steady driggel (?) ambiet airtin ~ 690 F. The conductivity of this pad @ 37°Can 1250 (pay have a problem of motor) The PH @22°C was 8.9

a decision was made to not ample TH-6 until June 14th. We exited the site at 700 mo Columbine Landfell Late: June 14, 1984 Jamps 65°F Time & gos Warn & muggy We Inspectors. Dennis Hotorec CDH Scott Winters CDH mark mullis Ed & Tech Ass We arrived onsite and identified our selves with the site personel We the proceded assite to THfor collection of the final set of samples to be collected from this Messured water land depth was 33.5 feet - Reported total depth of well (By Steve Ozynski) was ~ 60!

Analyses Tag # TRAFFIC Report Numbers COC BNA 9531 4 1606 84017072 9532 9533 9534 VOA 9535 H 1606 24023042 Metals 9536 MH 0981 34020082

Supled @ 1000 With the water level measured @ 33.5 feet and TD @ 60 the told vol needed to evacuate 2 casi volume is -60-33.5 = 26.5 ×.16 = 4.24 gel 4.24 X 2= 8.48 gal To insure the correct amount of liquid was evented we pulled 72 bail fulls out of the bale. The pH of the sample @ 24°C was 6.7 The conductivity of the saycle @ 24°C was 17250 This set I simple as well as TH -60, which is a displicate of TH-6, were all bailed and composited in 2 bucket fulls. Split among the 8 augen bottles and the 2 metals and 4 VOA's. The metals were feltered through a banel felter

BNA 9537 H 1607 84017012 9538 11 11 9539 11 11 9540 11 11 VOA 9541 H 1607 24023042 Metals 9542 MH0982 34020082	Analyses	Tag #'s	TH -	-60 =1c Reports	Bottle lot	C-0-0
9539 /1 11 11 9540 11 11 11 VOA 9541 H 1607 24023042	BNA		H_1	607	84017072	
9540 11 11 11 VOA 9541 H 1607 24023042						
VOA 9541 H 1607 24023042		· · · · · · · · · · · · · · · · · · ·			•	
		9540		1 11	(1	
Metals 9542 mH0982 34020082	VOA	9541	H 1(07	24023042	
	Metals.	9542	mHO	982	34020082	
	THE TWO IS NOT THE TRANSPORT					***************************************
	100					
						(#180 0)

\$15.00 Best

Sapled @ 1000	16
with a 45 minon felter p	aper
1 9/	, 77
ase one sign	
taged at grapered for shipsy	anet.
End of the day a sample	a solt
was done w/ Colo Fadjill.	
	
Exited site @ 124/pm.	

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE I OCATION AND INSPECTION INFORMATION

I. IDENTIFICATION				
01 STATE 02 SITE NUMBER 09 80 635 37				

LUCATION AND INS	PECTION INFORMA	TION	- 1. The state of
		,	
02 5	TREET, ROUTE NO., OR SPEC	CIFIC LOCATION IDENTIFIER	0.0
11	750 We	Id Count A	0.6
04 \$1	TATE 05 ZIP CODE 0	6 COUNTY	OTCOUNTY 08 CONG
	7	Weld	123 OY
			V1177452.34
about 19	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	UNKNOWN	
SEGINNING	YEAR ENDING YEAR		
ne of firm)		HICIPAL CONTRACTOR	Name of firms
ne of firms	. OTHER	(Saecity)	
108 TITLE	lagist	OT CAGANIZATION COLO PLANT	08 TELEPHONE NO. (303 320-833
10 TITLE			12 TELEPHONE NO.
Coreu	llest	2+8	(303)757-4789
	, i		()
	À		()
Tech Service	15ADDRESS 333	West 120 m Northalenn, CO	18 TELEPHONE NO
			()
	м.		()
	,		()
, si			()
			()
L19 WEATHER CONDITIONS	relina Illam	e Pain W/	toms renging
1 .	r to 90°		
pron 70°			
1 1 - 0			03 TELEPHONE NG.
from 70° / 102 OF (Agency) Organization) Keines		TON 07 FELEPHONE NO.	03 TELEPHONE NO. (303) 450 - 275 08 DATE
	D TYPE OF OWNERSHIP COME SA. PRIVATE B. F. OTHER OJ YEARS OF OPERATION WINT 13 SEGINNING TO BITLE 10 TITLE 14 TITLE LECKNOWN OUT 15 LECKNOWN OUT 15 LECKNOWN OUT 15 LECKNOWN OUT 15 OUT	OF STREET, ROUTE NO OR SPECT 17 SO WE OA STATE OF SIP CODE CO 805/6 DITYPE OF OWNERSHIP CONCER ORDS S.A. PRIVATE B. FEDERAL B. F. OTHER OJ YEARS OF OPERATION SEGINNING YEAR ENDING YEAR ENDING YEAR C. MUNICIPAL D. MUNICIP	CO 805/6 Weld DIPPEOFOWNERSHIP CONCROPTION S.A. PRIVATE [B. FEDERAL] C. STATE [D. COUNTY] G. OTHER UNKNOWN DISTRICT

~	M CA
1	CIA

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION		
O1 STATE	02 SITE NUMBER D 980 635 379	

VE	A			TION REPORT		CO 1098	0635379
II. WASTE ST	TATES, QUANTITIES, AN	CHARACTERI					
	TATES (Check all tinal addry) G. É. SLURRY R. FINES F. LIQUID (?)	02 WASTE QUANTITY	FY AT SITE weste quantities independent)	A. TOXIC A. B. CORRO C. RADIO D. PERSIS		JBLE I I HIGHLY	SIVE IVE PATIBLE
III WASTE T		NO. OF DHUMS _		8\$,000 ga	llone		
CATEGORY	SUBSTANCE NA	146	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE	ME	OT GACSS AMOUNT	OZ UNIT OF MEASURE	U3 COMMENTS	The property of the second	
OLW	OILY WASTE						
SOL	SOLVENTS	*	unbnown	Unknown	Total	vol is ab	2.1
PSD	PESTICIDES		- Dryun	DALKONA	10/0/	001 13	(4)
occ	OTHER ORGANIC CH	EMICALS X	11	Unknown	8 4,00	O gallons	
ICC	INORGANIC CHEMICA		./	11	3 700	mums	
ACD	ACIDS	2	"		 		
BAS	BASES	*	"	(,	5		
MES	HEAVY METALS					recovering the second of the s	
IV. HAZARD	OUS SUBSTANCES (See AD	pendia for most frequently	cted CAS Numbers				
1 CATEGORY	02 SUBSTANCE NA	ME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
50/	MEK, MIG	3 K Cyclotte	me ?	Druns	_	untenom	
occ	Unknow		Unknow	anton	o	11	
10c	L1		1,	. 17		11	
ACD	()		,,	//		11	
BAS	- 11		,,	4		"	
- Designation of the section of the						-	
					*		
V. FEEDSTO	CKS (See Appendix for CAS Number	rs)	<u> </u>				
CATEGORY	01 FEEDSTOCK		02 CAS NUMBER	CATEGORY	01 FEEDST	CCX NAME	C2 CAS NUMBER
FDS				FDS		•	
FDS -				FOS			
FDS				FDS			
FDS				FDS I			
	S OF INFORMATION (Cites	Decilic references a ?	State L'es, cample analysis				
NAME AND ADDRESS OF THE OWNER, WHEN PERSONS AND ADDRESS O	. State files		same e es cumure anavers				

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT CRIPTION OF HAZARDOUS CONDITIONS AN

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CO 098 0635 3 79

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENT		
II. HAZARDOUS CONDITIONS AND INCIDENTS			, A
01 Z A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Carlenon	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	I ALLEGED
	sangler, before	EPA	04/0c
Neven, may indica	te contaminent à	The sy	stem.
01X B. SURFACE WATER CONTAMINATION 2 300		X POTENTIAL	
Because The shallow of	04 NARRATIVE DESCRIPTION	Creature	110
daylights probably flow's	tomal Coal Creek	about !	mile Dra
site. Hise conditions	provide the solution	for surfa	a water contany
OT C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	C ALLEGED
None report	tel or observed		
01 Z D. FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	I POTENTIAL	I ALLEGED
11 /1			
*			
01 Z E. DIRECT CONTACT	02 T OBSERVED (DATE:)	_ POTENTIAL	I ALLEGED
C3 POPULATION POTENTIALLY AFFECTED:	04 NAPRATIVE DESCRIPTION		ř.
None report	. 0		(8)
The regues			
		,	
01/DK CONTAMINATION OF SOIL total acresse 03 AREA POTENTIALLY AFFECTED: 195	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
Page 79 il da	une ar lealair	,	
Posice y w		フ	
* . *	*		
01/★G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED.	02 II OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	C ALLEGED
Some statements	ar guin in gr	oundwat	n and
Curface water.		<u> </u>	
01 C H. WORKER EXPOSURE:INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	_ ALLEGED
1	*		
None reported			
	я		
01 Z I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 T CBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	I POTENTIAL	I ALLEGED
11 11			
1			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION		
O1 STATE	02 SITE NUMBER	
00	02 SITE NUMBER D980635379	

PART3-I	ESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDE	INTS CO DO	780635 379
II. HAZARDOUS CONDITIONS AND I	CIDENTS (Continued)			-
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	<u> </u>	02 G OBSERVED (DATE:	POTENTIAL	□ ALLEGED
Not obs	enel			
•		*		
01 G K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name)	s) of species)	02 C OBSERVED (DATE:	2 POTENTIAL	C ALLEGED
/ (<i>'</i>	,		*
				-
01 ☐ L CONTAMINATION OF FOOD CHA	AIN ,	02 TOBSERVED (DATE:) ☐ POTENTIAL	☐ ALLEGED
01 M. UNSTABLE CONTAINMENT OF Soits Aurori Standing induces. Leaving dru		02 TOBSERVED (DATE:) Z POTENTIAL	I ALLEGED
03 POPULATION POTENTIALLY AFFECTS		04 NARRATIVE DESCRIPTION		
/ /	(/			
01 T N. DAMAGE TO OFFSITE PROPER 04 NARRATIVE DESCRIPTION		02 T OBSERVED (DATE:) I POTENTIAL	I ALLEGED
none re	youted			
01 T O. CONTAMINATION OF SEWERS. 04 NARRATIVE DESCRIPTION	STORM DRAINS, WWTPs	02 C OBSERVED (DATE:) DOTENTIAL	I ALLEGED
11	1			
O1 T P ILLEGAL/UNAUTHORIZED DUM 04 NARRATIVE DESCRIPTION	PING	02 T OBSERVED (DATE:) I POTENTIAL	I ALLEGED
11	1)	*		
05 DESCRIPTION OF ANY OTHER KNOW				
none ~	executed or	· obrewed		
III. TOTAL POPULATION POTENTIAL	LY AFFECTED: (tal could be about	2300	
IV. COMMENTS				·
None				
,				
V COURCES OF IMPORTATION	7			
V. SOURCES OF INFORMATION (C.10 s	pacinic references, al. g. State thes, s	iamore analysis. "edons:		
EPA & State & Les Site inspectable + C	oversation w	Houlty contact		*

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4- PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION		
OI STATE	02 SITE NUMBER	
CO	0980635379	

	PART 4-PERMI	T AND DESCRI	TIVE INFORMAT	ION L	(2)10980625 379
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED	C2 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	
(Check of that ecory)	4				31
C.A. NPOES					
☐ B. UIC	· ·	_			Y O
CC. AIR					
ID. RCRA					
C E. RCRA INTERIM STATUS					
GF. SPCCPLAN	1	1			
IG. STATE SOCIAL Catifical	a of design	alion	Lone		
ZH. LOCAL _{/Specify)}	<u> </u>				
I. OTHER Saccing					
J. NONE				1	
III. SITE DESCRIPTION	AMOUNT 03 UNIT 0	OF VELCUOS CALE	DEAD AGAIT (C)		05 OTHER.
	. AMOUNT US UNIT (OF MEASURE 04 T	REATMENT (Chack at their a	11/4	US OTHER.
A. SURFACE IMPOUNDMENT B. PILES			INCENERATION	11	24. BUILDINGS ON SITE
I C. CRUMS, ABOVE GROUND		1 100	UNDERGROUND INJ		
I D. TANK, ABOVE GROUND			CHEMICAL PHYSICA BIOLOGICAL	L.	3-4
C E. TANK, BELOW GROUND		1000	WASTE OIL PROCES	SING	OS AREA OF SITE
XF. LANDFILL W/chume below I	1500 dry		SOLVENT RECOVER		
I G. LANDFARM STONE			OTHER RECYCLING		[Acres]
Z H. OPEN DUMP		= Зн	OTHER		
C I. OTHER			360	ecityi	
		*			
IV. CONTAINMENT					
01 CONTAINMENT OF WASTES (CRECK ORD) C A. ADEQUATE, SECURE	C B. MODERATE	Sc. INADEO	UATE, POOR	C D. INSECU	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, UNERS, BAI	W. P. CORNEL COMP. SANCTONICS.				
the Chrons we into late 60'	ne diejo	red 5	on a	1000to	25 acre site
in the late 60'	's ad ear	dy 70's			
Y. ACCESSIBILITY					
	XNO A				1
02 COMMENTS Drune	lave been	- buried	I for all	test &	Peret 10 yrs.
VI. SOURCES OF INFORMATION ICITE 5340	in the second	of sol			
		nuie analysis, (+00/13)			
EPA + State Files					
Site Contacts					
			,		

EPA FORM 2070-13 (7-81)

2	Same change of	
100		
	amed a	

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION			
	02 SITE NUMBER		
CO	0980635379		

SETA		CTION REPORT HIC, AND ENVIRONMENTAL DATA	CO 0980635379
IL DRINKING WATER SUPPLY			
01 TYPE OF DRINKING SUPPLY (Check as approache)	02 STATUS		03 DISTANCE TO SITE
SURFACE	WELL ENDANGE	RED AFFECTED MONITORED	
COMMUNITY A.	B. C A. C	B	A(mi)
NON-COMMUNITY C.	D.C - D.C	E. C F. C	B(mi)
III. GROUNDWATER			
A. ONLY SOURCE FOR DRINKING	DRINKING (Other sources everlable) COMMERCIAL INDUSTRIAL IRRIGATI (No other werer sources everlable)	C. CCMMERCIAL, INDUSTRIAL, IRRIG (Limited other sources evaluable)	ATION C D. NOT USED, UNUSEABLE
02 POPULATION SERVED BY GROUND WA	Within to 2 mls 100 to 200	03 DISTANCE TO NEAREST DRINKING WATER	RWELL \approx 12 (mi)
04 DEPTH TO GROUNDWATER about 40-50	os direction of groundwater flow probably west	06 DEPTH TO AQUIFER OF POTENTIAL YI OF AQUIFER 40t 50 m 400 unler	ELD 08 SOLE SOURCE AQUIFER YES 200
29 DESCRIPTION OF WELLS including useege The meg outs for principally	ge of the welle	within this and come done	en are veid
10 RECHARGE AREA		11 DISCHARGE AREA	
TYES COMMENTS UNLE	nom	☐ YES COMMENTS ☐ NO	lanon
IV. SURFACE WATER			
C1 SURFACE WATER USE: Check one) C A. RESERVOIM, RECREATION DRINKING WATER SOURCE	RIRIGATION, ECONOMICALI	LY C. COMMERCIAL, INDUSTRIAL	☐ D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED BO	Ceek	AFFECTE	D DISTANCE TO SITE (mi) (mi) (mi)
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION		
		(3) MILES OF SITE 2 0 0 OF PERSONS	REST POPULATION (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2)	MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDIN	vG
	\$ 60		(mi)
area with a	provide narraine description of nature of population with mediate ricente te town of E	in about 2 %	Farm & ranch 5 miles to the
northwest.			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER 00 0980 635 379

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION O1 PERMEABILITY OF UNSATURATED ZONE (Check one) □ A. 10⁻⁴ - 10⁻⁸ cm/sec □ B. 10⁻⁴ - 10⁻⁹ cm/sec ★ C. 10⁻⁴ - 10⁻³ cm/sec □ D. GREATER THAN 10⁻³ cm/sec 02 PERMEABILITY OF BEDROCK (Check one) B. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE (10-4 - 10-6 project) (10-2 - 10-4 project) (Greater trees 10-2 project) C A. IMPERMEABLE 04 CEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH exact depth unboroning approx 10/0-15 feet Unknown 1881 Jentenon 07 ONE YEAR 24 HOUR RAINFALL OB SLOPE SITE SLOPE DIRECTION OF SITE SLOPE, TERRAIN AVERAGE SLOPE Unknown (in) 09 FLOOD POTENTIAL met in C SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY SITE IS IN 100 YEAR FLOODPLAIN 12 DISTANCE TO CRITICAL HABITATION and angered species Unlywwn 1 : CISTANCE TO WETLANDS 15 acre minimum ESTUARINE OTHER (mi) ENDANGERED SPECIES: DISTANCE TO: RESIDENTIAL AREAS: NATIONAL/STATE PARKS. FORESTS, OR WILDLIFE RESERVES AGRICULTURAL LANDS
PRIME AG LAND . AC COMMERCIALINOUSTRIAL 4 2-3/4 (mi) alout 2-3 (m) 14 CESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY is located about above on old and mine the saved faults existing in this area. The overall topography is an upland area characterized by grant slopes will a maximum slope of about 10 % Relief in this over is approx 80 feet fronthe top of the landfill down to Coal Creeke. 3 surface water containing Ronds are situated or site with 2 additional stock ponds downstope, down change, of the site about VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample enarysis, reports) that Files On site inspection Conversation with facility Contact

	Annual column	Fer
Part of	9	
10	Herm 4	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

L. IDENTIFICATION

101 STATE 102 SITE NUMBER

1 0 980635379

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	C2 SAMPLES SENT TO -	C3 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	45	all invigence semples were	Orrine
SURFACE WATER	Z	submitted to Cambridge	malraes
WASTE		analytical arrow located at	received
AIR		222 arseral St. in Watertown.	Sept 17,191
RUNOFF		m	
SPILL		Diginic complex were cent to	Inorganics
SOIL	*	Sneeting Core located at	not receive
VEGETATION	•	391/ Fordren Suite 100 in Houston	sat time of
OTHER		Lexan	report.
III. FIELD MEASUREMENTS TA	AKEN		
n TYPE	02 COMMENTS	e sanged from 6.7 to 8.9	
Conductivity	11.	e sanged from 6.7 to 8.9	
<i></i>			
IV. PHOTOGRAPHS AND MAP	S		
01 TYPE GROUND C AERIAL		02 IN CUSTODY OF CAT Doret of Hearth	
O3 MAPS O4 LCCATIO	obrado.	Dest of Health	
V. OTHER FIELD DATA COLLE	CTED (Provide nerrative des	cravani	
No out or			
		* 1 *	
W COURSE OF DECREASE			
VI. SOURCES OF INFORMATION		g., state tres, sample analysis, records	
meite inspect	twn		
Eff+ State Files Laboratory Data			

1	T people
63	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION				
01 STATE	C2 SITE NUMBER			
CO	N980635379			

		PART 7 - OWNE			
current owner(s) ald pa	onety	of the war	PARENT COMPANY "1 SOCIEDADIO		
NAME Kenneh Prat	+	02 D+8 NUMBER	OB NAME Some		R38MUM B+0 ec
STREET ADDRESS IP O. BOX. AFD 4. SHO.) 1921 Pan Drams		04 SIC CODE	10 STREET ADDRESS (P.O. Box, PFD #, src.)		11 SIC CODE
Jongment .	CO STATE	07 UP CODE 80501	12 CITY	13 STATE	1 4 ZIP CODE
Herne Coporate	₩	02 0+6 NUMBER	08 NAME Some		9 0 + 9 NUMBER
STREET ADDRESS (P.O. SOE, AFO P. HC.) 1333 West 120 mg		04 SIC CODE	10 STREET ADDRESS (P. O. Box. RFD P. etc.)		11 SIC CODE
nortglen		BOZ34	12 C:TY	13 STATE	1 4 ZIP CODE
NAME		02 D+8 NUMBER	OB NAME	İ	RABMUN 6+0 ec
STREET ADDRESS (P.O. Box, AFD # etc.)	enocement in annual second	04 SIC CODE	:0 STREET ACORESS (P.O. 2011, RFD & VIC.)	17 A	1: SIC CODE
SCITY	06 STATE	O7 ZIP CODE	12 GITY	13 STATE	14 ZP COCE
NAME		02 D+8 NUMBER	OB NAME		90+8 NUMBER
3 STREET AODRESS (P. O. BOX. AFD . sec.)		04 SIC CODE	10 STREET ACORESS IP 0. Sea, AFD . stc.)		I I SIC CODE
5 CITY	C6 STATE	07 ZIP COLE	12017	STATE	14 ZIP CODE
L PREMIOUS ONMERISTED	·		IV. REALTY OWNER(S) - 100HCACH NO	nsi recentitisti	
NAMÉ		02 D+6 NUMBER	01 NAME		02 D+8 NUMBER
STREET ACORESS (P.O. BOX, AFD P. MC.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFO *. etc.)		04 SIC CODE
SCITY	OBSTATE	O7 ZIP CODE	CS CITY	C6 STATE	07 ZIP CODE
NAME		PERMUN 8+0 SS)1 A-48		C2 D+8 NUMBER
3 STREET ADDRESS (P O. Box, AFD + etc.)		. 04 SIC CODE	OS STREET ADDRESS (P.O. Sur OFO # 410).	i	C4 SIC CODE
5 CITY	08 STATE	07 ZIP CODE	OS CITY	C6 STATE	07 ZIP CODE
NAME		02 0+8 NUMBER	01 NAME		D2 D+3 NUMBER
3 STREET ADDRESS (P O Box, 3FO P stc.)		04 SIC CODE	103 STREET ADDRESS (P O Box. PFO + stc.)		C4 SIC CODE
SCITY	CBSTATE	07 ZIP COOE	OS CITY	CO STATE	1 07 ZP CCCE
/. SOURCES OF INFORMATION ICIA SO	citic references.	e g., state files, sample anelysis, r	apons:		
State of the Facility Contacts					
Facility Contacts					

-	STATE OF THE PARTY AND
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION			
	02 SITE NUMBER		
(6)	D980635379		

VERA	*			OR INFORMATION	COP	98043537
I. CURRENT OPERATO	OR (Provide if different from	owner) S	mealed 7.	OPERATOR'S PARENT COMPANY IN M	reacable)	•
NAME		8	02 D+8 NUMBER	10 NAME	1	D-8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE 1	S ZIP CODE
YEARS OF OPERATION	09 NAME OF OWNER		<u> </u>	•		
I. PREVIOUS OPERAT	OB(S) (at most occur for	at: anuda on	u d cidlacast responsaci	PREVIOUS OPERATORS' PARENT CO	MDANIES	
NAME	OR(3) Las modificants	at, promot or	02 D+6 NUMBER	10 NAME		1 D+B NUMBER
STREET ADDRESS (P.O. &	DE, AFD F. etc.)		0 - SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
ary		G8 STATE	07 IP CODE	14 CITY	15 STATE 1	6 ZIP CODE
YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	SPERIOD			
NAME	<u> </u>		02 0+B NUMBER	10 NAME	1	1 D+B NUMBER
STREET ADDRESS (P.O. Ed	a, AFD #, erc.)	·	04 SIC CODE	12 STREET ADDRESS (P.O. Sox, RFD # etc.;		13 SIC CODE
CITY		OS STATE	O7 ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE
YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	IS PERIOD	* .		
I NAME			02 D+8 NUMBER	10 NAME	1	1 D+8 NUMBER
3 STREET ADDRESS (P.O. Be	z. RFD #, MC.I		04 SIC CODE	12 STREET ADDRESS (P. O. Box. AFD P. etc.)		13 SIC CODE
CITY		OB STATE	07 ZIP CODE	14 CiTY	15 STATE 1	6 ZIP CODE
YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	S PERIOD			
V. SOURCES OF INFO	RMATION (Cite specific	references,	e.g., state files. sample anerysis	reports)		
						,
	÷		* .		* *	

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- AMAZE -	
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CO DS 8 0635 379

II. ON-SITE GENERATOR 127	ans	1 rally			
OI NAME	117	02 D+B NUMBER			•
OS STREET AOORESS (P.O. Box. RFD . NC.)		04 SIC CODE			,
STREET ADDRESS (F.g. Box, APD F. MC)		040100000			
5 CITY	06 STATE	E 07 ZIP CODE			
III. OFF-SITE GENERATOR(S)					
IN NAME		102 D+8 NUMBER	191 NAME		02 D+B NUMBER
71 HOME		UZ DYB NOMBEN	191 HOME		UZ UTB NUMBER
		*			
3 STREET AODRESS (F.O. Sox. AFD F. MG.)	1	04 SIC CODE	US STREET ADDRESS IP.O. 30x, AFO P. HE.J		04 SIC CODE
			i		
DS CITY	O6 STATE	ELOT ZIP CODE	05 CITY	ICO STATE	07 ZIP CODE
	para actividades de casa de				
OI NAME		102 D+8 NUMBER	IO1 NAME		22.0 . 2.11114650
INAME		UZ U+B NUMBER	OTNAME		C2 D+9 NUMBER
3 STREET ADDRESS (P.O. Sex. RFD P. +IC.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD +, etc.)		04 SIC CODE
DS CITY	IOS STATE	E O7 ZIP CODE	05 CITY	log STATE	O7 ZIP CODE
33 411		- Cr 000E	03411	0001713	or Er cooc
		1			,
IV. TRANSPORTER(S)					
1 NAME	****	02 D+8 NUMBER	01 NAME	***	02 D+9 NUMBER
3 STREET ADDRESS (P.O. Box. AFO P. ora.)		04 SIC CODE	03 STREET ADDRESS (P.O. Bax, AFO P. esq.)		04 SIC CODE
3 STREET POORESS (P.S. BOX, APO P. Mil.,		040,0000	OG GTALLT ADDRESS IF G. Sex, AFO F. WE.		0-00000
S CITY	OB STATE	E 07 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE
		1	1		
1 NAME		02 D+8 NUMBER	101 NAME		02 D+8 NUMBER
3 STREET ADDRESS (P.O. Box. AFO . HC.)		04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD . etc.)		04 SIC CODE
DS CITY	OB STATE	O7 ZIP CODE	OS CITY	06 STATE	O7 ZIP CODE
			1		4
V. SOURCES OF INFORMATION ICE .	neste references	A C State like semple analysis	. (000001		

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

		TIFICATION
01	STATE	02 SITE NUMBER
C	0	0980635379

		ACTIVITIES	
PAST RESPONSE ACTIVITIES			
01 C A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
not reporte	1	a	
01 C B. TEMPORARY WATER SUPPLY PROVID	ED 02 DATE	03 AGENCY	
04 DESCRIPTION /1			
01 C. PERMANENT WATER SUPPLY PROVID	ED 02 DATE	03 AGENCY	
04 DESCRIPTION //	,	US AGENCY	
01 ☐ D. SPILLED MATERIAL REMOVED	02 04 15	03 AGENCY	
O4 DESCRIPTION	11	US AGENCT	
01 E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
OA DECORIGIONAL	//		
		03 AGENCY	
01 I F. WASTE REPACKAGED 04 DESCRIPTION //	./ /	O3 AGENCY	
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY	
01 TH. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 Z I. IN SITU CHEMICAL TREATMENT	COLATE	03 AGENCY	
04 DESCRIPTION	11.	US AGENCY	
01 © J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
OA CON IN COLUMN TOTAL THE TANK	00.047	22 405 104	
01 C K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION		03 AGENCY	
\mathcal{U}	11	*	
01 C L ENCAPSULATION	O2 DATE	03 AGENCY	
04 DESCRIPTION	//	US AGENCY	
		22 . 25 . 25	
01 \(\to \) M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 Z N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION //	11		
•	POVERSION OF DATE	03 AGENCY	
01 Z O. EMERGENCY DIKING/SURFACE WATER	A DIVERSION OF DATE		
01 Z O. EMERGENCY DIKING/SURFACE WATER 04 DESCRIPTION //	//		
C4 DESCRIPTION	11	03 AGENCY	
04 DESCRIPTION //	11	03 AGENCY	
01 I P. CUTOFF TRENCHES SUMP	02 DATE		

	KCT	
1	CLA	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDEN	TIFICATION
O1 STATE	02 SITE NUMBER
Co	0980635379

VLIA	PART 10 - PAST RESPONSE ACTIVITIES	CO 1098069317
II PAST RESPONSE ACTIVITIES (Continued)		
01 G R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY.
hist 11 am	7. 1	
01 Z S. CAPPING/COVERING	02 DATE	03 AGENCY
	/ '	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION		03 AGENCY
04 DESCRIPTION		
01 C U. GROUT CURTAIN CONSTRUCTED	O2 DATE	03 AGENCY
04 DESCRIPTION	4	
01 Z V. BOTTOM SEALED	02 DATE	03 AGENCY
04 DESCRIPTION	4	
01 T W. GAS CONTROL		03 AGENCY
04 DESCRIPTION	(1	C3 AGENC1
01 C X, FIRE CONTROL 04 DESCRIPTION		03 AGENCY
V	(1 * *	
01 T Y. LEACHATE TREATMENT,	02 DATE	03 AGENCY
04 DESCRIPTION	<i>''</i>	
01 € Z. AREA EVACUATED	02 DATE	03 AGENCY
C4 DESCRIPTION	4	*
01 ☐ 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY
04 DESCRIPTION //	1,	00 700101
01 C 2. POPULATION RELOCATED 04 DESCRIPTION		03 AGENCY .
/,	(1)	
01 2 3. OTHER REMEDIAL ACTIVITIES	O2 DATE	03 AGENCY
04 DESCRIPTION		
//	4	
,		*
*		
I. SOURCES OF INFORMATION (Cite specific refe-	rences, e.g., State files, samole analysis reportsi	
		*
*		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION 01 STATE 02 SITE NUMBER CO 0980635379

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION TIMES TO



02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state fries, sample analysis, reports)

MPLE NUMBER: H1601

COLUMBINE CTRIX DC # 2903-8-8

LAWOFILE

LAWOFILE

ORGANICS ANALYSIS DATA SHEET - PAGE 1 DOT

LABORATORY NAME: SPECTRIX AB SAMPLE ID NO.: 840602206 CASE NO. : SVIIS 2903 QC REPORT NO.: 70

JAMPLE MATRIX: WATER

CONTRACT NO.: 68-01-6728

DATA RELEASE AUTHORIZED BY:

DATE SAMPLE RECEIVED: 6-15-84

SEMIVOLATILES

CONCENTRATION: LOW

DATAFILE: EU06022C06

DATE EXTRACTED/PREPARED: 6-16-84 ...

OR DILUTION FACTOR: .. 500

DATE ANALYZED: 07/12/84 PERCENT MOISTURE:

20 CO 10 CO	spins hand grain spiles depth death district district dates dates dates destrict dates destrict dates
PP# CAS # CUMPOUND UG/L	
PP# CAS # COMPOUND UG/L	
(21A) 88-06-2 2,4,6-TRICHLORDPHENOL 20 U	
(22A) 59-50-7 P-CHLORD-M-CRESOL 20 U	
(24A) 95-57-8 2-CHLOROPHENOL 20 U	
(31A) 120-83-2 2,4-DICHLOROPHENOL 20 U	
(34A) 105-67-9 2,4-DIMETHYLPHENDL 20 U	
(57A) 88-75-5 2-NITROPHENOL 40 U	
(58A) 100-02-7 4-NITROPHENOL 100 U	
(59A) 51-28-5 2,4-DINITROPHENOL 100 U	
(60A) 534-52-1 4.6-DINITRO-2-METHYLPHENOL 40 U	
(64A) 87-86-5 PENTACHLOROPHENOL 20 U	
(55A) 108-95-2 PHENOL 20 U	
() 65-85-0 BENZDIC ACID 200 U	
() 95-48-7 2-METHYLPHENOL 10 U	*
() 108-39-4 4-METHYLPHENOL 10 U	
() 95-95-4 2,4,5-TRICHLOROPHENOL 200 U	
(1B) 83-32-9 ACENAPHTHENE 20 U	
(5B) 92-87-5 BENZIDINE 80 U	
(8B) 120-82-1 1,2,4-TRICHLOROBENZENE 20 U	
(9B) 118-74-1 HEXACHLOROBENZENE 20 U	
(12B) 67-72-1 HEXACHLORDETHANE 20 U	
(18B) 111-44-4 BIS(2-CHLOROETHYL)ETHER 20 U	
(20B) 91-58-7 2-CHLORONAPHTHALENE 20 U	
(25B) 95-50-1 1,2-DICHLOROBENZENE 20 U	
(26B) 541-73-1 1,3-DICHLOROBENZENE 20 U	
(27B) 106-46-7 1,4-DICHLOROBENZENE 20 U	
(28B) 91-94-1 3,3'-DICHLOROBENZIDINE 40 U	
(35B) 121-14-2 2,4-DINITROTOLUENE 40 U	
(36B) 606-20-2 2,6-DINITROTOLUENE 40 U	
(37B) 122-66-7 1,2-DIPHENYLHYDRAZINE 40 U	
(39B) 206-44-0 FLUDRANTHENE 20 U	
(40B) 7005-72-3 4-CHLOROPHENYL PHENYL ETHER 20 U	
(41B) 101-55-3 4-BROMOPHENYL PHENYL ETHER 20 U	
(42B) 39638-32-9 BIS(2-CHLORDISOPROPYL) ETHER 40 U	
(43B) 111-91-1 BIS(2-CHLORDETHOXY) METHANE 40 U	
(52B) 87-68-3 HEXACHLOROBUTADIENE 20 U	
(53B) 77-47-4 HEXACHLOROCYCLOPENTADIENE 20 U	
(4B) 78-59-1 ISOPHORONE 20 U	

SAMPLE NUMBER: H1601

EMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022006

PP#	CAS #	COMPOUND		
(548)	71-20-3	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE N-NITROSODIPROPYLAMINE	20 U	
(40B)	76 75 5	NI-NITEDEDITEDENINI AMINE	20 0	
(A3B)	621-64-7	N-NITROSODIPHENTLAMINE	20 U	
(66B)	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	20 K	
(67B)	85-68-7	BENZYI BUTYI PHTHALATE	20 U	
(68B)	84-74-2	DI-N-BUTYI PHTHALATE	#20 K	
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	20 U	
(70B)	84-66-2	DIETHYL PHTHALATE	20 U	
(71B)	131-11-3	DIMETHYL PHTHALATE	20 U	
(72B)	56-55-3	BENZO(A)ANTHRACENE	20 U	
(73B)	50-32-8	BENZO(A)PYRENE	40 U	
(74B)	205-99-2	BENZO(B)FLUORANTHENE	40 U	
(75B)	207-08-9	BENZO(K)FLUORANTHENE	40 U	
(76B)	218-01-9	CHRYSENE	40 U	
(77B)	208-96-8	ACENAPHTHYLENE	20 U	
(78B)	120-12-7	ANTHRACENE	20 U	
79B)	191-24-2	BENZO(GHI)PERYLENE	40 U	
(80B)	86-73-7	FLUORENE	20 U	
(81B)	85-01-8	PHENANTHRENE	20 U	
(82B)	53-70-3	DIBENZO(A, H) ANTHRACENE	40 U	
(83B)	193-39-5	INDENO(1, 2, 3-CD)PYRENE	40 U	
(84B)	129-00-0	PYRENE	20 U	
()	62-53-3	ANILINE	20 U	
()	100-51-6	BENZYL ALCOHOL	40 U	
()	106-47-8	4-CHLOROANILINE	100 U	
()	132-64-9	DIBENZOFURAN	20 U	
()	91-57-6	2-METHYLNAPHTHALENE	40 0	
()	88-74-4	2-NITROANILINE	200 U	
()	99-09-2	BIS(2-ETHYLHEXYL) PHTHALATE BENZYL BUTYL PHTHALATE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIETHYL PHTHALATE DIMETHYL PHTHALATE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE CHRYSENE ACENAPHTHYLENE ANTHRACENE BENZO(GHI)PERYLENE FLUORENE PHENANTHRENE DIBENZO(A, H)ANTHRACENE INDENO(1, 2, 3-CD)PYRENE PYRENE ANILINE BENZYL ALCOHOL 4-CHLOROANILINE DIBENZOFURAN 2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE	200 U	
()	100-01-6	4-NITROANILINE	200 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

SAMPLE NUMBER: H1601

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

ABORATORY NAME: SPECTRIX

LAB SAMPLE ID NO. : 840602206 SAMPLE MATRIX: WATER

SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY:

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO. : 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

	PP#	CAS #	COMPOUND ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1, 1-TRICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE CHLORODIFLUOROMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE	UG/L	
	(2V)	107-02-8	ACROLEIN	100	U
	(3V)	107-13-1	ACRYLONITRILE	100	U
	(4V)	71-43-2	BENZENE	5	U
	(6V)	56-23-5	CARBON TETRACHLORIDE	5	U
	(74)	108-90-7	CHLOROBENZENE	5	U
	(10V)	107-06-2	1, 2-DICHLOROETHANE	1	U
	(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE	5	U
	(13V)	75-34-3	1, 1-DICHLOROETHANE	5	U
	(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE	5	υ
A175	(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10	U
	16V)	75-00-3	CHLOROETHANE	10	U
	(19V)	110-75-8	2-CHLOROETHYLVINYL ETHER	10	U
	(23V)	67-66-3	CHLOROFORM	5	U
	(29V)	75-35-4	1, 1-DICHLOROETHENE	5	U
	(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE	5	U
	(32V)	78-87-5	1, 2-DICHLOROPROPANE	10	U
	(33V)	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5	U
	()	10061-01-5	CIS-1, 3-DICHLOROPROPENE	5	U .
	(38V)	100-41-4	ETHYLBENZENE	5	U
	(44V)	75-09-2	METHYLENE CHLORIDE	5 5	K 💆 🦥
	(45V)	74-87-3	CHLOROMETHANE	10	U
	(46V)	74-83-9	BROMOMETHANE	10	U
	(47V)	75-25-2	BROMOFORM	10	U
	(48V)	75-27-4	BROMODICHLOROMETHANE	5	U
	(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5	U
	(50V)	75-71-8	DICHLORODIFLUOROMETHANE	5	U
	(51V)	124-48-1	CHLORODIBROMOMETHANE	5	U
	(85V)	127-18-4	TETRACHLOROETHENE	5	U
	(86V)	108-88-3	TOLUENE	5	U
	(87V)	79-01-6	TRICHLOROETHENE	5	U
	(88V)	75-01-4	VINYL CHLORIDE	10	U
	()	67-64-1	ACETONE	510	*
	()	78-93-3	2-BUTANONE	5	U
	()	75-15-0	CARBONDISULFIDE	1	U
	()	519-78-6	2-HEXANONE	5	U
1-	()	108-10-1	4-METHYL-2-PENTANONE	5	U
)	100-42-5	STYRENE	5	U
	()	108-05-4	VINYL ACETATE	5	U
	()	1330-20-7	2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	5	U

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

indicates the presence of a compound that meets the

identification criteria but the quantitative result

is less than the specified detection limit but greater

ORG AN I CE	ANALYSIS DATA BHEET -	Page 3	ATBY
FORF 11		Doc. Control No. 2903 - 8	-00
Laboratory Mape: EPECTRIX CORPORATION		Case No. 2903	
Lab Sangle I.D. Not 8406022		OC Report No. 70	
Date Received: _6/15/84		Date Analyzed: 6/26/84	
Date Extracted: 6/20/84	PESTICIDES	Pactor: Conc. 100 DII.	
MULTIPLY ALL V	ALUES AND DETECTION LIMI	10 24	
** A			
PF I CAS I	<u>uq/1</u>	242	₩ a /J
(89F) 309-00-2 eldrin	10 0	(102P) 319-84-6 BHC-Alpha	10 U
(90F) 60-57-1 dieldrin 💥 ⊀	100 lok &	(103P) 319-85-7 BHC-Bets	10 U
(91F) 57-74-9 chlordene	10 U	(104P) 319-86-8 BHC-Dulta	10 0
(92F) 50-29-3 4,4'-DDT	3C U	(105F) 56-89-9 BHC-Garra	14.1 200 200
(93P) 72-55-9 4,4'-DDE	16 U	(106P) 53469-21-9 PCB-1242	200 0
(94P) 72-54-8 4,4'-DCD	10 U	(107P) 11097-69-7 PCB-1254	200 U
(95F) 115-29-7 endosulfan I	10 U .	(108F) 11104-2E-2 PCB-1221	200 U
(96P) 115-29-7 endosulfan II	10 U	(109P) 11141-16-5 PCB-1232	200 U
(97F) 1031-07-8 endosulfan sulfate	10 U	(110P) 12672-29-6 PCB-1248	300 U
(98F) 78-20-8 endrin	10 U	(111F) 11056-82-5 PCB-1260	200 U
(99P) 7421-43-4 endrin aldetyde	10 U	(112P) 12674-11-2 PCE-1016	266 N
(100P) 76-44-8 heptachlor	10 K	(113P) 8001-35-2 toxaphene	200 U
(101F) 1024-57-3 heptachlor epoxide	10 U		
FACTOR:	/ _{[D.1}	1 - 10/	
(V) (V1(nL))	7		
300 11111111		111/	1
V _F - final volume of extract	D.F Dilution f	•	1 lh
V2 = Initial weight of magple extracted		100.	,0,
	DIOXINS N/A		
MULTIPLY ALL VALUES	AND DETECTION LIMITS BY	Date Analyzed:	
			D11
PP 1 CAS 1	ug/1		
		-	
2,3,7,8-tetrachlorodibenzo-			
(125F) 1747-01-6 p-dioxin	5 U .		U.
FACTOR: [Vr(ml)]x	[0.1]	.1 •	
[V ₁ (mL)]			
,			
V _F = Final volume of extract	D.F. = Dilution i	actor	
V1 = Initial weight of sample extracted			4
	DATA REPORTING QUALI	FIERS	
** * * * * * * * * * * * * * * * * * *			
Value - If the result is a value greater than or	equal to the	This flag applies to pesticides persenter	s where the
Value - If the result is a value greater than or detection limit, report the value.	equal to the	This flag applies to pesticides parameter identification has been performed using t	
detection limit, report the value.			wo colum.
detection limit, report the value. U - Indicates compound was analyzed for but	not detected.	identification has been performed using t	but the level
detection limit, report the value.	not detected.	identification has been performed using t confirmation (as specified in Method 608)	but the level
detection limit, report the value. U - Indicates compound was analyzed for but	not detected. t.	identification has been performed using t confirmation (as specified in method 608) is too low for verification of the compou	we column. but the level no by mess

was greater than 1/2 of the MDL and greater than 1/2

of the concentration detected in sample,

SAMPLE NUMBER: H1601

GWI

ORGANICS ANALYSIS DATA SHEET - PAGE 4

CASE NO. : 2903

QC REPORT NO. : 70

LABORATORY NAME:

ANALYST: DDT

SPECTRIX CORPORATION

DATAFILE: EU06022V06

B. TENTATIVELY IDENTIFIED COMPOUNDS

		()	~ i	
CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN-DOESN'T MATCH ANY LIBRARY SPECTRA	33		86
115-10-6	METHANE, OXYBIS-	50	98.5%	310
	1, 2-PROPANEDIOL, 3, 3'-OXYDI-, TETRANITRATE	145	853	90
106-98-9	1-BUTENE	148	768	130
	METHANE, DIMETHOXY-	201	971	33

ONLY 2 INTERNAL STANDARDS FOUND

DRGANICS ANALYSIS DATA SHEET - PAGE 1

LABORATORY NAME: SPECTRIX

AB SAMPLE ID NO.: 840602207

ABORTER

A

CASE NO. : SVHE 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED ... 6-15-80

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-84

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022C07

CONC OR DILUTION FACTOR: ...

PP#	CAS #	COMPOUND	110	'L	a have some some come come come done	
(61B)	62-75-9	N-NITROSODIMETHYLAMINE 2, 4, 6-TRICHLOROPHENOL P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2-NITROPHENOL 4-NITROPHENOL 4, 6-DINITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4-METHYLPHENOL 2, 4, 5-TRICHLOROPHENOL ACENAPHTHENE BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROETHANE BIS(2-CHLOROETHYL)ETHER	20	U	- Burgo Albura (Baller Albura	
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	20	U		
(22A)	59-50-7	P-CHLORO-M-CRESOL	20	U		
(24A)	95-57-8	2-CHLOROPHENOL	50	U		
(31A)	120-83-2	2,4-DICHLOROPHENOL	20	U		
(34A)	105-67-9	2,4-DIMETHYLPHENOL	20	U		
(57A)	88-75-5	2-NITROPHENOL	40	U		
(58A)	100-02-7	4-NITROPHENOL	100	U		
(59A)	51-28-5	2,4-DINITROPHENOL	100	U		
(60A)	534-52-1	4,6-DINITRO-2-METHYLPHENOL	40	U		
(64A)	87-86-5	PENTACHLOROPHENOL	20	U		
55A)	108-95-2	PHENOL	20	U		
,)	65-85-0	BENZOIC ACID	200	U		
()	95-48-7	2-METHYLPHENOL	10	U		
()	108-39-4	4-METHYLPHENOL	10	U		
()	95-95-4	2, 4, 5-TRICHLOROPHENOL	200	U		
(1B)	83-32-9	ACENAPHTHENE	50	U		
(5B)	92-87-5	BENZIDINE	80	U		
(8B)	120-82-1	1, 2, 4-TRICHLOROBENZENE	20	U		_
(9B)	118-74-1	HEXACHLOROBENZENE	20	U		
(12B)	67-72-1	HEXACHLOROETHANE	20	U		
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	20	U		
(20B)	91-58-7	2-CHLORONAPHTHALENE	20	U		
(25B)	95-50-1	1, 2-DICHLOROBENZENE	20	U		
(26B)	541-73-1	1,3-DICHLOROBENZENE	20	U		
(27B)	106-46-7	1,4-DICHLOROBENZENE	20	U		
(28B)	91-94-1	HEXACHLOROBENZENE HEXACHLOROETHANE BIS(2-CHLOROETHYL)ETHER 2-CHLORONAPHTHALENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE 1,2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER	40	U		
(35B)	121-14-2	2, 4-DINITROTOLUENE	40	U		
(36B)	606-20-2	2, 6-DINITROTOLUENE	40	U		
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	40	U		
(39B)	206-44-0	FLUORANTHENE	20	U		
(40B)	7005-72-3	FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER 4-BROMOPHENYL PHENYL ETHER	20	U		
(41B)	101-55-3	4-BROMOPHENYL PHENYL ETHER	20	U		
(42B)	39638-32-9	RIS(2-CHLOROISOPROPYL) ETHER	40	U		
(43B)	111-91-1	BIS(2-CHLOROETHOXY) METHANE	40	U		
(52B)	87-68-3	HEXACHLOROBUTADIENE	20	U		
(53B)	77-47-4	BIS(2-CHLOROETHOXY) METHANE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIENE	20	U		
4B)	78-59-1	ISOPHORONE	20	U		

Per u

SAMPLE NUMBER: H1602

"EMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022C07

PP#	С	AS #		UG/L	
					ä
(55B))	91-20-3	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE	20	U
(56B))	98-95-3	NITROBENZENE	20	U
(62B))	86-30-6	N-NITROSODIPHENYLAMINE	20	U
(63B)		PM 4 / 17 PM	A I A I TO THE PORT OF PORT OF PORT OF PORT OF A LAW E 1 PM		
(66B)	1	17-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	20	U
(67B))	85-68-7	BENZYL BUTYL PHTHALATE	20	U
(68B))	84-74-2	DI-N-BUTYL PHTHALATE	20	U
(69B)	1	17-84-0	DI-N-OCTYL PHTHALATE	20	U
(70B))	84-66-2	DIETHYL PHTHALATE	20	U
(71B)	1	31-11-3	DIMETHYL PHTHALATE	20	U
(72B))	56-55-3	BENZO(A)ANTHRACENE	20	U
(73B))	50-32-8	BENZO(A)PYRENE	40	U
(74B)) 2	05-99-2	BENZO(B)FLUORANTHENE	40	U
(75B)) 2	07-08-9	BENZO(K)FLUORANTHENE	40	U
(76B)) 2	18-01-9	CHRYSENE	40	U
(77B)) 2	08-96-8	ACENAPHTHYLENE	20	U
(78B)	1	20-12-7	ANTHRACENE	20	U
79B) 1	91-24-2	BENZO(GHI)PERYLENE	40	U
. 80B)	86-73-7	FLUORENE	20	U
(81B))	85-01-8	PHENANTHRENE	50	U .
(82B))	53-70-3	DIBENZO(A, H)ANTHRACENE	40	U
(83B)) 1	93-39-5	INDENO(1, 2, 3-CD)PYRENE	40	U
(84B)) 1	29-00-0	PYRENE	20	U
())	62-53-3	ANILINE	50	U
()	1	00-51-6	BENZYL ALCOHOL	40	U
()	1	06-47-8	4-CHLOROANILINE	100	U
(-)	1	32-64-9	DIBENZOFURAN	20	U
())	91-57-6	2-METHYLNAPHTHALENE	40	U
())	88-74-4	2-NITROANILINE	. 200	U
())	99-09-2	3-NITROANILINE	200	U
()	1	00-01-6	BIS(2-ETHYLHEXYL) PHTHALATE BENZYL BUTYL PHTHALATE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIETHYL PHTHALATE DIMETHYL PHTHALATE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE CHRYSENE ACENAPHTHYLENE ANTHRACENE BENZO(GHI)PERYLENE FLUORENE PHENANTHRENE DIBENZO(A, H)ANTHRACENE INDENO(1, 2, 3-CD)PYRENE PYRENE ANILINE BENZYL ALCOHOL 4-CHLOROANILINE DIBENZOFURAN 2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE	200	U

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

SAMPLE NUMBER: H1602

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

LABORATORY NAME: SPECTRIX _AB SAMPLE ID NO.: 840602207

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY:

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO. : 68-01-6728 DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

	PP#	CAS #	COMFOUND		UG/L	 MATERIAL PRINT CRAIN CRAIN COMP. CRAIN CRAIN CRAIN	
	(27)	107-02-8	ACROLEIN	a caller films state, andre paller paller caller diagna create	100 U	 	
	(3V)	107-13-1	ACRYLONITRILE		100 U		
	(4V)	71-43-2	BENZENE		5 U		
	(6V)	56-23-5	CARBON TETRACHLORIDE		5 U		
	(7V)	108-90-7	CHLOROBENZENE		5 U		
	(10V)	107-06-2	1, 2-DICHLOROETHANE		1 U		
	(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE		5 U	4.14	
	(13V)	75-34-3	1, 1-DICHLOROETHANE		5 U		
	(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE		5 U		
	(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHAN	IE	10 U		
lon	16V)	75-00-3	CHLOROETHANE		10 U		
	(19V)	110-75-8	2-CHLOROETHYLVINYL ETHER	3	10 U		
	(23V)	67-66-3	CHLOROFORM		5 U		
	(29V)	75-35-4	1, 1-DICHLOROETHENE		5 U		
	(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE		5 U		
	(32V)	78-87-5	1, 2-DICHLOROPROPANE		10 U		
	(334)	10061-02-6	TRANS-1, 3-DICHLOROPROPEN	ΙE	5 U		
	()	10061-01-5	CIS-1, 3-DICHLOROPROPENE		5 U		
	(38V)	San January Control	ETHYLBENZENE		5 U		
	(44V)	75-09-2	METHYLENE CHLORIDE		5 K		
	(45V)		CHLOROMETHANE		10 K		
	(46V)	74-83-9	The state of the s		10 U		
	(47V)	75-25-2	BROMOFORM		10 U		
	(48V)	75-27-4	BROMODICHLOROMETHANE		5 U		
	(49V)	75-69-4	FLUOROTRICHLOROMETHANE		5 U		
	(50V)	75-71-8	FLUOROTRICHLOROMETHANE DICHLORODIFLUOROMETHANE CHLORODIBROMOMETHANE		5 U		
	(51V)	124-48-1	CHLORODIBROMOMETHANE		- 5 U		
	(85V)	127-18-4		-	5 U		
	(89A)	108-88-3			5 U	*	
	(87V)	79-01-6	TRICHLOROETHENE		5 U		
	(88V)		VINYL CHLORIDE		10 U		
	()	67-64-1	ACETONE		5 U		
	()		2-BUTANONE		5 U		
	()	75-15-0	CARBONDISULFIDE		1 U		
	()		2-HEXANONE		5 U		
-	()		4-METHYL-2-PENTANONE		5 U		
()	100-42-5			5 U		
6)		VINYL ACETATE		5 U		
	(-)	1330-20-7	TOTAL XYLENES		5 U	0000	21
						0000	OI

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

DRG	AHICE ANALYSIS DATA SHEE	7 - Page 3			
FORM II		Doc. Control Mos 2	903-8		
Laboratory Mame: SPECTRIX CORPORATION		Case No: 29	03		
Lab Sangle I.D. No. 8406022		OC Report No:			
Date Received: 6/15/84		Date Analysed:	126/84		
Dete Extractod: 6/20/84	PESTICIDE				
MULTIPLY A	LL VALUES AND DETECTION	LIPITS BY .O/			
PP CAS	<u>ug/1</u>	PP 1 CAS 1	NG/1		
(89P) 309-00-2 alcrin	10 U	(102P) 319-84-6 BH	C-Alpha 10 U		
(90P) 60-57-1 dieldrin	10 U		C-Beta 10 U		
(91P) 57-74-9 chlordane	10 U		C-Delta 10 U		
(52F) 50-29-3 4,4'-DDT	1C U		C-Carra		
(93P) 72-55-5 4,4'-DDE	10 U	(106P) 53469-21-9 PC			
(54P) 72-54-8 4,4'-DDD	10 U	(107P) 11097-59-7 PC	B-1254 200 U		
(95P) 115-29-7 endosulfan I	10 U .	(108P) 11104-28-2 PC	B-1221 200 U		
(96P) 115-29-7 encosulfan II	10 U	(109P) 11141-16-5 PC	E-1232 200 U		
(97P) 1031-07-8 endosulfan sulfate	10 U	(110P) 12672-29-6 PC	B-1248 200 U		
(96P) 78-20-8 endrin	10 U	(111P) 11056-82-5 PC	B-1260 200 U		
(99P) 7421-43-4 endrin aldelyde	10 U	(1112P) 12674-11-2 PC	B-1016 200 U		
(100P) 76-44-8 heptachlor	10 U	(113P) 8001-35-2 to	xaphene 200 u		
(101P) 1024-57-3 heptachlor epoxide	10 U				
FACTOR: [VF(nL)]x		IP.I.I oj	1		
SPD [VI(EL)]		/	11X Fence		
Vy - Final volume of extract	D.F Diluti	ion factor	full the		
V _I = Initial weight of mapple extracted					
	DIOXINS N	/A			
MULTIPLY ALL VA	ALUES AND DETECTION LIMIT	TS BY	Date Analyzed:		
			Factor: Conc. Dil.		
PP 1 CAS 1	ug/1				
2,3,7,8-tetrachlorodiber	nzo-				
(129E) 1747-01-6 p-dioxis	5 U				
-					
FACTOR: [VF(mL)]x		ID.I.l .			
[V _I (mL)]		-			
Vr = Final volume of extract	D.F Dilut	ion factor			
V _I = Initial weight of sample extracted	2		-		
A					
DATA REPORTING QUALIFIERS					
The second of th					
Value - If the result is a value creater than or equal to the This flan applies to passicides parameters where the					

- Value If the result is a value greater than or equal to the detection limit, report the value.
- Indicates compound was analyzed for but not detected.
 The number is the minimum detection limit.
 - -Actual value, within the limitations of this method, is less than the value given. The mass spectral data indicates the presence of a compound that meets the identification criteria but the quantitative result is less than the specified detection limit but greater than sero.
- This flag applies to pasticides parameters where the identification has been performed using two column. confirmation (as apacified in Method 606) but the level is too low for verification of the compound by meas apactionity.
- Compound not detected; blank value for the compound was greater than 1/2 of the ADL and greater than 1/2 of the concentration detected in sample.

GW8

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME:

SPECTRIX CORPORATION

CASE NO. : 2903

QC REPORT NO.: 70

ANALYST: MKF

DATAFILE: EU06022V07

B. TENTATIVELY IDENTIFIED COMPOUNDS

	B. TENTATIVELY IDENTIFIED C	COMPOUNDS	CF	
CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
115-10-6	METHANE, OXYBIS-	50	997	370
109-87-5	METHANE, DIMETHOXY-	202	962	37
109-99-9	FURAN, TETRAHYDRO-	237	954	41

GW-B

DRGANICS ANALYSIS DATA SHEET - PAGE 1

ABORATORY NAME: SPECTRIX

LAB SAMPLE ID NO.: 840602208 A

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY:

CASE NO.: 2903 QC REPORT NO. : 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6-15-84

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-14

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022C08

CONC OR DILUTION FACTOR: 500....

	the larger desire being about dates filled darks stated states states states		offer many place from many many many many many many many man
PP#	CAS #	COMPOUND N-NITROSODIMETHYLAMINE 2, 4, 6-TRICHLOROPHENOL P-CHLOROPHENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2, 4-DIMETHYLPHENOL 2, 4-DINITROPHENOL 4, 6-DINITROPHENOL 4, 6-DINITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4, 5-TRICHLOROPHENOL ACENAPHTHENE BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 4-DICHLOROBENZENE 1, 4-DICHLOROBENZENE 1, 2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER 4-BROMOPHENYL PHENYL ETHER 4-BROMOPHENYL PHENYL ETHER BIS(2-CHLOROBUTADIENE BIS(2-CHLOROBUTADIENE HEXACHLOROBUTADIENE HEXACHLOROBUTADIENE	UG/L
(61B)	62-75-9	N-NITROSODIMETHYLAMINE	20 U
(21A)	88-09-5	2,4,6-TRICHLOROPHENOL	20 U
(22A)	59-50-7	P-CHLORO-M-CRESOL	20 U
(24A)	95-57-8	2-CHLOROPHENOL	20 U
(31A)	120-83-2	2,4-DICHLOROPHENOL	20 U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	20 U
(57A)	88-75-5	2-NITROPHENOL	40 U
(58A)	100-02-7	4-NITROPHENOL	100 U
(59A)	51-28-5	2,4-DINITROPHENOL	100 U
(A)	534-52-1	4,6-DINITRO-2-METHYLPHENOL	40 U
(64A)	87-86-5	PENTACHLOROPHENOL	20 U
(65A)	108-95-2	PHENOL	20 U
()	65-85-0	BENZOIC ACID	200 U
()	95-48-7	2-METHYLPHENOL	10 U
()	108-39-4	4-METHYLPHENOL	10 U
()	95-95-4	2, 4, 5-TRICHLOROPHENOL	200 U
(1B)	83-32-9	ACENAPHTHENE	20 U
(5B)	92-87-5	BENZIDINE	80 U
(8B)	120-82-1	1, 2, 4-TRICHLOROBENZENE	20 U
(9B)	118-74-1	HEXACHLOROBENZENE	20 U
(12B)	67-72-1	HEXACHLOROETHANE	20 U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	20 U
(50B)	91-58-7	2-CHLORONAPHTHALENE	20 U
(25B)	95-50-1	1,2-DICHLOROBENZENE	20 U
(59B)	541-73-1	1,3-DICHLOROBENZENE	20 U
(27B)	106-46-7	1,4-DICHLOROBENZENE	20 U
(58B)	91-94-1	3,3'-DICHLOROBENZIDINE	40 U
(35B)	121-14-2	2,4-DINITROTOLUENE	40 U
(36B)	606-20-2	2,6-DINITROTOLUENE	40 U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	40 U
(39B)	206-44-0	FLUORANTHENE	20 U
(40B)	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	20 U
(41B)	101-55-3	4-BROMOPHENYL PHENYL ETHER	20 U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL) ETHER	40 U
(43B)	111-91-1	BIS(2-CHLOROETHOXY) METHANE	40 U
(2B)	87-68-3	HEXACHLOROBUTADIENE	20 U
753B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	20 U
(54B)	78-59-1	ISOPHORONE	20 U

EMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022C08

PP#	CAS #	COMPOUND	UG/L	
(55B)	91-20-3	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE N-NITROSODIPROPYLAMINE BIS(2-ETHYLHEXYL) PHTHALATE	50 N	
(56B)	98-95-3	NITROBENZENE	20 U	
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	20 U	
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	20 U	
(66B)	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	20 U	
(67B)	85-68-7	BENZYL BUTYL PHTHALATE	20 U	
(8B)	84-74-2	DI-N-BUTYL PHTHALATE	20 U	
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	20 U	
(70B)	84-66-2	DIETHYL PHTHALATE	20 U	
(71B)	131-11-3	DIMETHYL PHTHALATE	20 U	
(72B)	56-55-3	BENZO(A)ANTHRACENE	20 U	
(73B)	50-32-8	BENZO(A)PYRENE	40 U	
(74B)	205-99-2	BENZO(B)FLUORANTHENE	40 U	
(75B)	207-08-9	BENZO(K)FLUORANTHENE	40 U	
(76B)	218-01-9	CHRYSENE	40 U	
(77B)	208-96-8	ACENAPHTHYLENE	20 U	
(78B)	120-12-7	ANTHRACENE	20 U	
79B)	191-24-2	BENZO(GHI)PERYLENE	40 U	
(80B)	86-73-7	FLUDRENE	20 U	
(81B)	85-01-8	PHENANTHRENE	20 U	
(82B)	53-70-3	DIBENZO(A, H) ANTHRACENE	40 U	
(83B)	193-39-5	INDENO(1,2,3-CD)PYRENE	40 U	
(84B)	129-00-0	PYRENE	20 U	
()	62-53-3	ANILINE	20 U	
()	100-51-6	BENZYL ALCOHOL	40 U	
()	106-47-8	4-CHLOROANILINE	100 U	
()	132-64-9	DIBENZOFURAN	20 U	
()	91-57-6	2-METHYLNAPHTHALENE	40 U	
()	88-74-4	2-NITROANILINE	200 U	
()	99-09-2	3-NITROANILINE	200 U	
()	100-01-6	BIS(2-ETHYLHEXYL) PHTHALATE BENZYL BUTYL PHTHALATE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIETHYL PHTHALATE DIMETHYL PHTHALATE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE CHRYSENE ACENAPHTHYLENE ANTHRACENE BENZO(GHI)PERYLENE FLUORENE PHENANTHRENE DIBENZO(A, H)ANTHRACENE INDENO(1, 2, 3-CD)PYRENE PYRENE ANILINE BENZYL ALCOHOL 4-CHLOROANILINE DIBENZOFURAN 2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE	200 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

ABORATORY NAME: SPECTRIX

_AB SAMPLE ID NO.: 840602208

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY: MUCH

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

					the strain scenar pulses stress before cases some gapps differe about states return about states and a stress term and
	PP#	CAS #	COMPOUND ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1, 1-TRICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPANE TRANS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE FLUOROTRICHLOROMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	UG/L	
	(24)	107-02-8	ACROLEIN	100 (J
	(3V)	107-13-1	ACRYLONITRILE	100 (J
	(4V)	71-43-2	BENZENE	5 (J
	(6V)	56-23-5	CARBON TETRACHLORIDE	5 l	J
	(7V)	108-90-7	CHLOROBENZENE	5 l)
	(10V)	107-06-2	1, 2-DICHLOROETHANE	1 (J
	(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE	5 (J
	(13V)	75-34-3	1, 1-DICHLOROETHANE	5 (J
	(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE	5 (J
_	(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10 (J
1	164)	75-00-3	CHLOROETHANE	10 (J
	(19V)	110-75-8	2-CHLOROETHYLVINYL ETHER	10 (J
	(23V)	67-66-3	CHLOROFORM	39	~
	(29V)	75-35-4	1, 1-DICHLOROETHENE	5 (J
	(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE	5 (J
	(32V)	78-87-5	1, 2-DICHLOROPROPANE	10 1	J
	(33V)	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5 (J
	()	10061-01-5	CIS-1, 3-DICHLOROPROPENE	5 (J
	(38V)	100-41-4	ETHYLBENZENE	5 (1 1
	(44V)	75-09-2	METHYLENE CHLORIDE	6 +11 (C /WCF
	(45V)	74-87-3	CHLOROMETHANE	10 1	J ·
	(46V)	74-83-9	BROMOMETHANE	10 1	J
	(47V)	75-25-2	BROMOFORM	10 1	J
	(48V)	75-27-4	BROMODICHLOROMETHANE	5 (J
	(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5 (J
	(50V)	75-71-8	DICHLORODIFLUOROMETHANE	5 (J
	(51V)	124-48-1	CHLORODIBROMOMETHANE	5 (J
	(85V)	127-18-4	TETRACHLOROETHENE	5 (J
	(89A)	108-88-3	TOLUENE	5 (J
	(B7V)	79-01-6	TRICHLOROETHENE	5 (J
	(88V)	75-01-4	VINYL CHLORIDE	10 (J
	()	67-64-1	ACETONE	5 (J
	()	78-93-3	2-BUTANONE	5 (J
	()	75-15-0	CARBONDISULFIDE	1 (J
	()	519-78-6	2-HEXANONE	5 (J
1	()	108-10-1	4-METHYL-2-PENTANONE	5 (J
(,)	100-42-5	STYRENE	5 (J
	()	108-05-4	VINYL ACETATE	5 (J
	()	1330-20-7	TOTAL XYLENES	5 (J
					000050

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

000050

DRGANICS	ANALYSIS	DATA	BHEFT	-	 ٠

FORF II	MANLIPIE DI	nin untti - P		Control No.	2903-	8
Laboratory Name: SPECTRIX CORPORATION			Cana	No. 2	903	
Lab Sangle 1.D. No. 8406022			DC 6	sport Bor	70	
Date Received: 6/15/84			Date	Analyzedi	6/26/8	4
Doto Extractod: 6/20/84	P	ESTICIDES			00 DII.	
TO AND COMPANY OF THE PROPERTY						
HULTIPLY ALL VA	LUES AND DE	TECTION LIMIT	5 BY			
PP 4 CAS 1	<u>uu/1</u>		PF_1	CAS 1		MG/1
(89P) 309-00-2 eldrin	10 U	i:	(102P)	319-84-6	BEC-Alphe	10 U
(9CF) 6C-57-1 dieldrin	10 U		(103P)	319-85-7	BHC-Bete	10 U
(91F) 57-74-9 chlordane	10 U		(104F)	319-86-8	BHC-Delte	10 U
(92F) 50-29-3 4,4'-DDT	10 U		(105P)	58-89-9	BHC-Cates	10 1
(93P) 72-55-5 4,4'-DDL	10 U		(106F)	53459-21-9	PCB-1242	20L U
(94F) 72-54-8 4,4'-DDD	10 U		(107P)	11097-69-7	PCB-1254	200 0
(95F) 115-29-7 endosulfan I	10 U	· ·	(1089)	11104-28-2	PCB-1221	200 U
(96F) 115-29-7 encosulten II	10 U		(109P)	11141-16-5	PCB-1232	200 U
(97P) 1031-07-8 endosulfan sulfate	10 U		[110P]	12672-29-6	PCB-1248	200 0
(96F) 78-20-8 endrin	10 U		(111F)	11096-82-5	PCB-1260	200 U
(99P) 7421-43-4 endrin eldelyde	10 υ		(112P)	12674-11-2	PCB-1016	200 U
(100P) 76-44-8 heptachlor	10 U		(113P)	8D01-35-2	toxaphene	200 U
(101P) 1024-57-3 heptachlor epoxide	10 U	_				
FACTOR: [Vp(nL)]x		1.0.1	J - •	01	1	1110
500 [VI(ET)]				ı	/	
		·			1	M
Vp . Final volume of extract	D.F.	- Dilution E	ector		+	•
WI - Initial weight of mample extracted						
•						
	DIOXI	E N/A	-			
MULTIPLY ALL VALUES	AND DETECT	ION LIMITS BY	-			yzed:
					Factor:	Conc. Dil.
PP 1 CAS 1	<u>ug/1</u>					
		41				
2,3,7,8-tetrachlorodibenzo-						
(129F) 1747-01-6 p-dioxiti	<u> </u>				*	
FACTOR: [VF(EL)]x		IP.F	.l -			
[V ₁ (EL)]						
V _F = Final volume of extract	D.F.	- Dilution f	actor			
V _I = Initial weight of sample extracted						
,						
	DATA REI	PORTING QUALI	FIERS			
Value - If the result is a value greater than or			F1.1- 61-	r autilias to	nacticides was	meters where the
The state of the s	equel to ti	116	Inie Fre	A abbreen co	basticines bate	merare anere ene

- Indicates compound was analyzed for but not detected. The number is the minimus detection limit.
- Actual value, within the limitations of this method, is less than the value given. The mass spectral data indicates the presence of a compound that meets the identification criteria but the quantitative result is less than the specified detection limit but greater
- confirmation (as apecified in method 608) but the level is too low for verification of the compound by mass
- Compound not detected: blank value for the compound was greater then 1/2 of the MDL and greater then 3/2 of the concentration detected in comple.

Sw-1

DRGANICS ANALYSIS DATA SHEET - PAGE 1

LABORATORY NAME: SPECTRIX
LAB SAMPLE ID NO.: 840602209

DATA RELEASE AUTHORIZED BY: .

CASE NO.: 2903 GC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6-15-84

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-84

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022C09

OR DILUTION FACTOR: 500

(61B) 62-75-9 N-NITROSODIMETHYLAMINE 20 U 88-06-2 2,4,6-TRICHLOROPHENOL 20 U (21A) 59-50-7 P-CHLORO-M-CRESOL 20 U (22A) 95-57-8 2-CHLOROPHENOL (24A) 20 U 120-83-2 2,4-DICHLOROPHENOL (31A) 20 U (34A) 105-67-9 2, 4-DIMETHYLPHENOL - 20 U 88-75-5 2-NITROPHENOL 40 U (57A) 100-02-7 4-NITROPHENOL 100 U (58A) 51-28-5 2,4-DINITROPHENOL (59A) 100 U OA) 534-52-1 4,6-DINITRO-2-METHYLPHENOL 40 U 87-86-5 PENTACHLOROPHENOL 20 U (64A) (65A) 108-95-2 PHENOL 20 U 200 U 65-85-0 BENZOIC ACID 95-48-7 2-METHYLPHENOL 10 U) 108-39-4 4-METHYLPHENDL 10 U 95-95-4 2, 4, 5-TRICHLOROPHENOL 200 U) (1B) 83-32-9 ACENAPHTHENE 20 U 92-87-5 BENZIDINE (5B) 80 U (8B) 120-82-1 1, 2, 4-TRICHLOROBENZENE 20 U (9B) 118-74-1 HEXACHLOROBENZENE 20 U 67-72-1 HEXACHLORDETHANE (12B) 20 U 111-44-4 BIS(2-CHLOROETHYL)ETHER 20 U (18B) 91-58-7 2-CHLORONAPHTHALENE (20B) 20 U 95-50-1 1, 2-DICHLOROBENZENE (25B) 20 U (26B) 541-73-1 1,3-DICHLOROBENZENE 20 U 106-46-7 1, 4-DICHLOROBENZENE (27B)20 U 91-94-1 3,3'-DICHLOROBENZIDINE 40 U (28B) 121-14-2 2, 4-DINITROTOLUENE (35B) 40 U 606-20-2 2,6-DINITROTOLUENE (36B) 40 U (37B) 122-66-7 1, 2-DIPHENYLHYDRAZINE 40 U 206-44-0 FLUORANTHENE (39B) 20 U 7005-72-3 4-CHLOROPHENYL PHENYL ETHER (40B) 20 U 101-55-3 4-BROMOPHENYL PHENYL ETHER (41B)20 U (42B) 39638-32-9 BIS(2-CHLORDISOPROPYL) ETHER 40 U 111-91-1 BIS(2-CHLOROETHOXY) METHANE (43B) 40 U 87-68-3 - HEXACHLOROBUTADIENE 2B) 20 U 77-47-4 HEXACHLOROCYCLOPENTADIENE (53B) 20 U ISOPHORONE (54B) 78-59-1 20 U



MEMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022C09

PP#	CAS #	COMPOUND	UG/L	
(55B)	91-20-3	NAPHTHALENE	20 U	
(56B)	98-95-3	NITROBENZENE	20 U	
(95B)	86-30-6	N-NITROSODIPHENYLAMINE	20 U	
(83B)	621-64-7	N-NITROSODIPROPYLAMINE	20 U	
(66B)		BIS(2-ETHYLHEXYL) PHTHALATE		
(67B)	85-68-7	BENZYL BUTYL PHTHALATE	20 U	
(68B)		DI-N-BUTYL PHTHALATE	20 K	
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	20 U	
(70B)	84-66-2	DIETHYL PHTHALATE	20 U	
(71B)	131-11-3	DIMETHYL PHTHALATE	20 U	
(72B)	56-55-3	BENZO (A) ANTHRACENE	20 U	
	50-32-8	BENZO (A) PYRENE	40 U	
(74B)	205-99-2	BENZO(B)FLUORANTHENE	40 U	
(75B)	207-08-9	BENZO(K)FLUORANTHENE	40 U	
(76B)	218-01-9	CHRYSENE	40 U	
(77B)	208-96-8	ACENAPHTHYLENE	20 U	
(78B)	120-12-7	ANTHRACENE	20 U	
'9B)	191-24-2	BENZO(GHI)PERYLENE	40 U	
(80B)	86-73-7	FLUORENE	20 U	
(81B)	85-01-8	PHENANTHRENE	20 U	
(82B)	53-70-3	DIBENZO(A, H) ANTHRACENE	40 U	
(83B)	193-39-5	INDENO(1,2,3-CD)PYRENE	40 U	
(84B)	129-00-0	PYRENE	20 U	
()	62-53-3	ANILINE	20 U	
()	100-51-6	BENZYL ALCOHOL	40 U	
()	106-47-8	4-CHLOROANILINE	100 U	
()	132-64-9	DIBENZOFURAN	20 U	
()	91-57-6	2-METHYLNAPHTHALENE	40 U	
()	88-74-4		200 U	
()		3-NITROANILINE	200 U	
()	100-01-6		200 U-	
		And the second of the second s		

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

ABORATORY NAME: SPECTRIX AB SAMPLE ID NO. : 840602209

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY: MEF

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

		COMPOUND	UG/L		
(2V)	107-02-8	ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1, 1-TRICHLOROETHANE 1, 1-DICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER	100 U		
(3V)	107-13-1	ACRYLONITRILE	100 U		
(4V)	71-43-2	BENZENE	5 U		
(6V)	56-23-5	CARBON TETRACHLORIDE	5 U		
(7V)	108-90-7	CHLOROBENZENE	5 U		
(10)	107-06-2	1, 2-DICHLOROETHANE	1 U		
(11)	71-55-6	1, 1, 1-TRICHLOROETHANE	5 U		
(13)	75-34-3	1, 1-DICHLOROETHANE	5 U		
(14)	79-00-5	1, 1, 2-TRICHLOROETHANE	5 U		
(15)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10 U		
161	75-00-3	CHLOROETHANE	10 U		
* 191	110-75-8	2-CHLOROETHYLVINYL ETHER	10 U		
(23)	7) 67-66-3	CHLOROFORM	9		
(291	75-35-4	1, 1-DICHLOROETHENE	5 U		
(301)	1) 156-60-5	TRANS-1, 2-DICHLOROETHENE	5 U		
(321	78-87-5	1, 2-DICHLOROPROPANE	10 U		
(33/	1) 10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5 U		
() 10061-01-5	CIS-1, 3-DICHLOROPROPENE	5 U		
(38/	100-41-4	ETHYLBENZENE	5 U	1	
(44)	75-09-2	METHYLENE CHLORIDE	520 C	MC	
(45)	74-87-3	CHLOROMETHANE	10 U		
(461	74-83-9	BROMOMETHANE	10 U		
(47)	75-25-2	BROMOFORM	10 U		
(48)	75-27-4	BROMODICHLOROMETHANE	5 U		
(491	75-69-4	FLUOROTRICHLOROMETHANE	5 U		
(501	75-71-8	DICHLORODIFLUOROMETHANE	5 U		
(511	124-48-1	CHLORODIBROMOMETHANE	5 U		£.
(851	127-18-4	TETRACHLOROETHENE	5 U		
(86)	108-88-3	TOLUENE	5 U		
(87)	79-01-6	TRICHLOROETHENE	5 U		
(88)	75-01-4	VINYL CHLORIDE	10 U		
() 67-64-1	ACETONE	5 U		
() 78-93-3	2-BUTANONE	5 U		
(75-15-0	CARBONDISULFIDE	1 U		
. () 519-78-6	2-HEXANONE	5 U		
- (-) 108-10-1	CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPANE TRANS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE CHLORODIFLUOROMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	5 U		
) 100-42-5	STYRENE	5 U		
-1) 108-05-4	VINYL ACETATE	5 U		
() 1330-20-7	TOTAL XYLENES	5 U		

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

is less than the specified detection limit but greater

ORCANICE	WHATABIR	DATA	BHEET	-	Page :

	S ANALYSIS DATA SHEET -		-903-8 -4	
FORM 11			903	
Laboratory Name: SPECTPIX CORPORATION			703	
Lot Sangle 1.D. Not 8406022		OC Report No.	71/61	
Date Received: 6/15/84		Date Analysed:	2 10/84	
Date Extracted: 6/20/84	PESTICIDES	Pectors Conc. 101	D11	
MULTIPLY ALL V	ALUES AND DETECTION LIM	175 by		
PP & CAS \$	<u>ug/1</u>	PP I CAS I		MG/J
(89F) 309-00-2 eldrin	10 U	(102P) 319-84-6	BEC-Alpha	10 N
(90P) 60-57-1 dieldrin	10 U	(103P) 319-85-7	BHC-Bets	10 U
(91F) 57-74-5 chlordane	10 U	(104F) 319-86-8	BHC-Delte	10 0
(92F) 50-29-3 4,4'-DDT	10 0	(1055) 56-85-9	BHC-Cates	10 0
(93F) 72-55-5 4,4'-DDE	10 U	(106F) 53469-21-9	FCB-1242	200 0
(94F) 72-54-8 4,4'-DDD	10 U	(107F) 11097-69-7	PCB-1254	200 0
(95P) 115-25-7 endosulfan I	10 U	(108F) 11104-28-2	PCB-1221	200 U
(96F) 115-29-7 encosulfan II	10 U	(109F) 11141-16-5	PCB-1232	300 n
(97P) 1031-07-8 endosulfan sulfate	1C U	(110P) 12672-29-6	PCE-124E	300 A
(98F) 78-20-E endrin	10 U .	(111F) 11056-82-5	PCB-1260	300 N
(99P) 7421-43-4 endrin aldelyde	10 U	(112P) 12674-11-2	PCE-1016	200 U
(100P) 76-44-8 heptachlor	10 U	(113P) 8001-35-2	toxathene	200 U
(101P) 1024-57-3 heptachlor epoxide	10 U			
FACTOR: (V _I (nL))x 500 (V _I (nL))	/ _{ID} .	Ed - • 0 /	MC	F
V _p = Final volume of extract	D.F Dilution	factor	4	
V _I = Initial weight of magple extracted				
	DIOXINS W/	4		
MULTIFLY ALL VALUE	S AND DETECTION LIMITS E	PY	Datc Analyzed:	
			Factor: Conc.	
PP CAS 1	<u>ug/1</u>		-	
2,3,7,8-tetrachlorodibenzo-				
(129E) 1747-01-6 p-dioxin				
TI MAN				
FACTOR: [VF(mL)]x		Int .		
[V _I (EL)]				
Vr = Final volume of extract	D.F Dilution	factor		
V _I = Initial weight of sample extracted				
	DATA REPORTING QUA	LIFIERS		
Value - If the result is a value greater than o	r equal to the	- This flag applies to p	erricides betametate whe	re the
detection limit, report the value.		identification has been	n performed using two co	lum,
			fied in method 606) but	
U - Indicates compound was analyzed for but	not detected.	is too low for verific	ation of the compound by	808 8 8
The number is the minimus detection lim				

000067

was greater than 1/2 of the MDL and greater than 1/2

5w-2

DRGANICS ANALYSIS DATA SHEET - PAGE 1

_ABDRATORY NAME: SPECTRIX

LAB SAMPLE ID NO. : 840602210 /

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY:.

CASE ND.: 2903 QC REPORT ND.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6-15-F4

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-54

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022C10

1

OR DILUTION FACTOR: .. 500

PP#	CAS #	COMPOUND N-NITROSODIMETHYLAMINE 2, 4, 6-TRICHLOROPHENOL P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2-NITROPHENOL 4-NITROPHENOL 4, 6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4-METHYLPHENOL 4, 5-TRICHLOROPHENOL ACENAPHTHENE BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 4-DINITROTOLUENE 2, 4-DINITROTOLUENE 1, 2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER BIS(2-CHLOROISOPROPYL) ETHER BIS(2-CHLOROETHOXY) METHANE	UG/L	o diado digna diffic desas spino princi Bigas situis millor ficci fillico cilific
(61B)	62-75-9	N-NITROSODIMETHYLAMINE	20 U	
(21A)	88-06-2	2, 4, 6-TRICHLOROPHENOL	20 U	
(22A)	59-50-7	P-CHLORO-M-CRESOL	20 U	
(24A)	95-57-8	2-CHLOROPHENOL	20 U	
(31A)	120-83-2	2,4-DICHLOROPHENOL	20 U	
(34A)	105-67-9	2,4-DIMETHYLPHENOL	20 U	
(57A)	88-75-5	2-NITROPHENOL	40 U	
(58A)	100-02-7	4-NITROPHENOL	100 U	
(59A)	51-28-5	2,4-DINITROPHENOL	100 U	
(OA)	534-52-1	4,6-DINITRO-2-METHYLPHENOL	40 U	
(64A)	87-86-5	PENTACHLOROPHENOL	20 U	
(65A)	108-95-2	PHENOL	20 U	
()	65-85-0	BENZOIC ACID	200 U	
()	95-48-7	2-METHYLPHENOL	10 U	
()	108-39-4	4-METHYLPHENOL	10 U	
()	95-95-4	2, 4, 5-TRICHLOROPHENOL	200 U	
(1B)	83-32-9	ACENAPHTHENE	20 U	
(5B)	92-87-5	BENZIDINE	80 U	
(8B)	120-82-1	1, 2, 4-TRICHLOROBENZENE	20 U	
(9B)	118-74-1	HEXACHLORDBENZENE	20 U	
(12B)	67-72-1	HEXACHLORDETHANE	20 U	
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	20 U	
(20B)	91-58-7	2-CHLDRONAPHTHALENE	20 U	
(25B)	95-50-1	1,2-DICHLOROBENZENE	20 U	
(59B)	541-73-1	1,3-DICHLOROBENZENE	20 U	
(27B)	106-46-7	1,4-DICHLOROBENZENE	20 U	
(58B)	91-94-1	3,3'-DICHLOROBENZIDINE	40 U	
(35B)	121-14-2	2, 4-DINITROTOLUENE	40 U	
(36B)	909-50-5	2,6-DINITROTOLUENE	40 U	
(37B)	122-66-7	1, 2-DIPHENYLHYDRAZINE	40 U	
(39B)	206-44-0	FLUDRANTHENE	20 U	
(40B)	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	20 U	
(41B)	101-55-3	4-BROMOPHENYL PHENYL ETHER	20 U	
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL) ETHER	40 U	
(43B)	111-91-1	BIS(2-CHLORDISOPROPYL) ETHER BIS(2-CHLORDETHOXY) METHANE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIENE ISOPHORONE	40 U	
(2B)	87-68-3	HEXACHLOROBUTADIENE	20 U	
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	20 U	
(54B)	78-59-1	ISOPHORONE	20 U	



SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022C10

	PP#		CAS #	COMPOUND	UG/L	
	(55B)	91-20-3	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE	20 U	
	(56B)	98-95-3	NITROBENZENE	20 U	
	(62B)	86-30-6	N-NITROSODIPHENYLAMINE	20 U	
	(66B)	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	20 K	
	(67B)	85-68-7	BENZYL BUTYL PHTHALATE	20 U	
	(68B)	84-74-2	DI-N-BUTYL PHTHALATE	20 K	,
	(69B)	117-84-0	DI-N-OCTYL PHTHALATE	20 U	
	(70B)	84-66-2	DIETHYL PHTHALATE	20 U	
	(71B)	131-11-3	DIMETHYL PHTHALATE	20 U	
	(72B)	56-55-3	BENZO(A) ANTHRACENE	20 U	
	(73B)	50-32-8	BENZO(A)PYRENE	40 U	
	(74B)	205-99-2	BENZO(B)FLUORANTHENE	40 U	
	(75B)	207-08-9	BENZO(K)FLUORANTHENE	40 U	
	(76B)	218-01-9	CHRYSENE	40 U	
	(77B)	208-96-8	ACENAPHTHYLENE	20 U	
4	(78B)	120-12-7	ANTHRACENE	20 U	
	'9B)	191-24-2	BENZO(GHI)PERYLENE	40 U	
25	(80B)	86-73-7	FLUORENE	20 U	
	(81B)	85-01-8	PHENANTHRENE	20 U	
	(85B)	53-70-3	DIBENZO(A, H) ANTHRACENE	40 U	
	(83B)	193-39-5	INDENO(1,2,3-CD)PYRENE	40 U	
	(84B)	129-00-0	PYRENE	20 U	
	()	62-53-3	ANILINE	20 U	
	()	100-51-6	BENZYL ALCOHOL	40 U	
	()	106-47-8	4-CHLOROANILINE	100 U	
	()	132-64-9	DIBENZOFURAN	20 U	
	()	91-57-6	2-METHYLNAPHTHALENE	40 U	
	()	88-74-4	2-NITROANILINE	200 U	
	()	99-09-2	3-NITROANILINE	200 U	
	()	100-01-6	BIS(2-ETHYLHEXYL) PHTHALATE BENZYL BUTYL PHTHALATE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIETHYL PHTHALATE DIMETHYL PHTHALATE BENZO(A) ANTHRACENE BENZO(A) PYRENE BENZO(B) FLUORANTHENE CHRYSENE ACENAPHTHYLENE ANTHRACENE BENZO(GHI) PERYLENE FLUORENE PHENANTHRENE DIBENZO(A, H) ANTHRACENE INDENO(1, 2, 3-CD) PYRENE PYRENE ANILINE BENZYL ALCOHOL 4-CHLOROANILINE DIBENZOFURAN 2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE	200 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

מרב הדא הר # כשמם-ם- A

SAMPLE NUMBER: H1605

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

LABORATORY NAME: SPECTRIX .AB SAMPLE ID NO. : 840602210

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY: LUKF

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

	PP#	CAS #	COMPOUND ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1, 1-TRICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPANE TRANS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE CHLORODIFLUOROMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	UG/L	
	(2V)	107-02-8	ACROLEIN	100	U
	(3V)	107-13-1	ACRYLONITRILE	100	U
	(4V)	71-43-2	BENZENE	5	U
	(PA)	56-23-5	CARBON TETRACHLORIDE	5	U
	(7V)	108-90-7	CHLOROBENZENE	5	U
	(10V)	107-06-2	1, 2-DICHLOROETHANE	1	U
	(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE	5	U
	(13V)	75-34-3	1, 1-DICHLOROETHANE	5	U
	(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE	5	U
	(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10	U
	(191)	75-00-3	CHLOROETHANE	10	U
	.197)	110-75-8	2-CHLOROETHYLVINYL ETHER	10	U
	(53A)	67-66-3	CHLOROFORM	5	U
	(29V)	75-35-4	1, 1-DICHLOROETHENE	5	U
	(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE	5	U
	(32V)	78-87-5	1, 2-DICHLOROPROPANE	10	U
	(33V)	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5	U
	(_)	10061-01-5	CIS-1, 3-DICHLOROPROPENE	5	U
	(38V)	100-41-4	ETHYLBENZENE	5	U B
	(44V)	75-09-2	METHYLENE CHLORIDE	27	ICB
	(45V)	74-87-3	CHLOROMETHANE	10	U
	(46V)	74-83-9	BROMOMETHANE	10	U
	(47V)	75-25-2	BROMOFORM	10	U
	(48V)	75-27-4	BROMODICHLOROMETHANE	5	U
	(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5	U
	(50V)	75-71-8	DICHLORODIFLUOROMETHANE	5	U
	(51V)	124-48-1	CHLORODIBROMOMETHANE	5	U
	(85V)	127-18-4	TETRACHLOROETHENE	5	U
	(86V)	108-88-3	TOLUENE	5	υ
	(87V)	79-01-6	TRICHLOROETHENE	5	U
	(88V)	75-01-4	VINYL CHLORIDE	10	U
	()	67-64-1	ACETONE	5	U
	()	78-93-3	2-BUTANONE	5	U
	()	75-15-0	CARBONDISULFIDE	1	U
	(-)	519-78-6	2-HEXANONE	5	U
	()	108-10-1	4-METHYL-2-PENTANONE	5	U
-)	100-42-5	STYRENE	5	U
-	.)	108-05-4	VINYL ACETATE	5	U
	()	1330-20-7	TOTAL XYLENES	5	U

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

000086

ORGANICS ANALYSIS DATA SHEET - Page	DRCANICE	ANALYSIS	DATA	SHEET -	Page
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	S ANALYSIS DATA SHEET - 1		2903-8 -	
PORM 11		Doc. Control No.	2603	1 .
Laboratury Masor SPECTRIX CORPORATION			2903	-
Lab Sangle 1.D. Not 8406022		DC Report No:	10	-
Date Received: 6/15/84			6/26/84	
Date Extracted: 6/20/84	PESTICIDES	Pactor: Conc	100 011.	_
MULTIPLY ALL V	ALUES AND DETECTION LIMI	TS BY	- *	
PF 1 CAS 1	<u>v9/1</u>	PP CAS		19/1
(89P) 309-00-2 aldrin	10 U	(102P) 319-84-6	BHC-Alpha	10 U
(90P) 6C-57-1 dieldrin	10 U	(103P) 319-85-7	BHC-Beta	10 U
(91P) 57-74-9 chlordene	1C U	(104F) 319-86-8	BBC-Delta	10 U
(52F) 50-29-3 4,4'-DDT	10 U			10 L
		(105P) 58-89-9	BHC-Genes	
(93F) 72-55-5 4,4'-DDE	10 0	(106P) 53469-21-9		200 0
(94P) 72-54-8 4,4'-DDD	10 0	(107P) 11097-E9-7		200 0
(95P) 115-29-7 endosulfan I	10 U	(108F) 11104-26-2	PCB-1221	20C U
(96P) 115-29-7 encosulfan II	10 U	(109P) 11141-16-5		200 U
(97P) 1031-07-8 endosulfan sulfate	10 0	(110P) 12672-29-6	PCB-1248	200 0
(98P) 78-20-8 endrin	10 0	(111F) 11056-82-5	PCB-1260	200 U
(99P) 7421-43-4 endrin aldetyde	10 U	(112P) 12674-11-2	PCR-1016	200 N
(100P) 76-44-8 heptachlor	10 U	(113P) 8001-35-2	toxaphene	200 U
(101P) 1024-57-3 heptachlor epoxide	10 U			
V _F = Finel volume of extract	D.F Dilution E	0	\mathcal{M}	F
V _I = Initial weight of mample extracted				
	DIOXINE N/A	+		
MULTIPLY ALL VALUES	S AND DETECTION LIMITS BY		Datc Analyzed:	
			Factor: Conc.	Dil
PP 1 CAS 1	ug/1			
2,3,7,8-tetrachlorodibenzo-				
(125F) 1747-C1-6 p-dioxin	<u>5 U</u>			
FACTOF: [VF(EL)]x		al -		
[V](mL)]	,			
V _F = Final volume of extract	D.F. = Dilution i	actor	4	
V_1 = Initial weight of sample extracted	4.	*		
	DATA REPORTING QUALI	FIERS		

- Value If the result is a value greater than or equal to the detection limit, report the value.
- Indicates compound was analyzed for but not detected. The number is the minimum detection limit.
- Actual value, within the limitations of this method, indicates the presence of a compound that meets the identification criteria but the quantitative result is less than the specified detection limit but greater
- identification has been performed using two column confirmation (as specified in method 608) but the level is too low for verification of the compound by mass
- Compound not detected: blank value for the compound was greater then 1/2 of the MDL and greater than 1/2 of the concentration detected in sample.

000087

GW-3

DRGANICS ANALYSIS DATA SHEET - PAGE 1

ABORATORY NAME: SPECTRIX

LAB SAMPLE ID NO. : 840602211 A

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY: .

CASE ND.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6-15-84 ..

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-84 ...

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022C11 '

CONC. OR DILUTION FACTOR: 500 ...

			and your deep made dank door goth many many many dank bloom
PP#	CAS #	COMPOUND	UG/L
(61B)	62-75-9	COMPOUND N-NITROSODIMETHYLAMINE 2, 4, 6-TRICHLOROPHENOL P-CHLOROPMENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2, 4-DIMETHYLPHENOL 2, 4-DINITROPHENOL 4-NITROPHENOL 4, 6-DINITROPHENOL 4, 6-DINITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4-METHYLPHENOL 2, 4, 5-TRICHLOROPHENOL ACENAPHTHENE BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 4-DINITROTOLUENE 2, 4-DINITROTOLUENE 2, 4-DINITROTOLUENE 1, 2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER BIS(2-CHLOROISOPROPYL) ETHER BIS(2-CHLOROETHOXY) METHANE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIENE	20 U
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	20 U
(22A)	59-50-7	P-CHLORO-M-CRESOL	20 U
(24A)	95-57-8	2-CHLOROPHENOL	20 U
(31A)	120-83-2	2,4-DICHLOROPHENOL	20 U
(34A)	105-67-9	2, 4-DIMETHYLPHENOL	20 U
(57A)	88-75-5	2-NITROPHENOL	40 U
(58A)	100-02-7	4-NITROPHENOL	100 U
(59A)	51-28-5	2,4-DINITROPHENOL	100 U
· OA	534-52-1	4,6-DINITRO-2-METHYLPHENOL	40 U
.64A	87-86-5	PENTACHLOROPHENOL	20 U
(65A)	108-95-2	PHENOL	20 U
(65-85-0	BENZOIC ACID	200 U
(95-48-7	2-METHYLPHENOL	10 U
(108-39-4	4-METHYLPHENOL	10 U
(95-95-4	2,4,5-TRICHLOROPHENOL	200 U
(1B)	83-32-9	ACENAPHTHENE	20 U
(5B)	92-87-5	BENZIDINE	80 U
(8B)	120-82-1	1, 2, 4-TRICHLOROBENZENE	20 U
(9B)	118-74-1	HEXACHLOROBENZENE	20 U
(12B)	67-72-1	HEXACHLOROETHANE	20 U
(18B	111-44-4	BIS(2-CHLOROETHYL)ETHER	20 U
(50B)	91-58-7	2-CHLORONAPHTHALENE	20 U
(25B)	95-50-1	1,2-DICHLOROBENZENE	20 U
(26B)	541-73-1	1,3-DICHLOROBENZENE	20 U
(27B)	106-46-7	1,4-DICHLOROBENZENE	20 U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	40 U
(35B)) 121-14-2	2,4-DINITROTOLUENE	40 U
(36B)) 606-20-2	2,6-DINITROTOLUENE	40 U
(37B) 122-66-7	1, 2-DIPHENYLHYDRAZINE	40 U
(39B	206-44-0	FLUORANTHENE	20 U
(40B) 7005-72-3	4-CHLOROPHENYL PHENYL ETHER	20 U
(41B) 101-55-3	4-BROMOPHENYL PHENYL ETHER	20 U
(42B) 39638-32-9	BIS(2-CHLOROISOPROPYL) ETHER	40 U
(43B) 111-91-1	BIS(2-CHLORDETHOXY) METHANE	40 U
(2B	87-68-3	HEXACHLOROBUTADIENE	20 U
\33B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20 U
(54B)) 78-59-1	ISOPHORONE	20 U

EMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022011

PP#	CAS #	COMPOUND	UG/L	
(540	1 00-05-0	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE N-NITROSODIPROPYLAMINE	20 0	
(400	1 96-70-6	NITEDOCODIOLENVI AMINE	20 0	
(420)	1 60-30-6	N-NITEDCODIEDCOVIAMINE	20 0	
(440	117-01-7	BIS(2-ETHYLHEXYL) PHTHALA	75	
(470	117-01-7	BENZYL BUTYL PHTHALATE	20 (
(400) 02-00-7	DI-N-DUTY DUTYALATE	20 N	
((00)	117-04-0	DI-N-BUTYL PHTHALATE	20 V	
(700) 11/-64-0	DIETUVI BUTUALATE	20 U	
(705	121-11-2	DIMETHY PHINALAIC	20 U	
(715) 131-11-3	DINCINIL PRIMALATE	20 U	
(700) 50-00-0) 50-00-0	BENZO (A) BYDENE	40 U	
(700) 00-32-6	DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIETHYL PHTHALATE DIMETHYL PHTHALATE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE ACENAPHTHYLENE ANTHRACENE BENZO(GHI)PERYLENE FLUORENE PHENANTHRENE DIBENZO(A, H)ANTHRACENE INDENO(1, 2, 3-CD)PYRENE PYRENE	40 U	
(745)) 203-77-2	DENZO (M.) FLUORANTHENE	40 U	
(700) 20/-08-7	CURVEENE	40 U	
(770) 210-01-7	ACENABUTUVI ENE	20 U	
(7/5	100-10-7	ANTURACENE	20 U	
100	101-24-2	DENTO COUL LEED VI ENE	40 U	
מקפי) 171-24-2	EL HODENE	20 U	
4000) 05-73-7	PUENANTUDENE	20 U	
(010)) 52-70-2	DIDENTO(A LIANTUDACENE	40 U	
(020)	102-20-5	INDEND(1 0 0-CD) DVDENE	40 U	
(84B) 129-00-0	DVDENE	20 11	
(ANTI THE	20 11	
		BENZYL ALCOHOL	40 11	
		4-CHLOROANILINE	100 11	
		DIBENZOFURAN	20 11	
() 91-57-6	2-METHYL NAPHTHAL ENE	40 11	
(2-NITROANILINE	200 11	
		PYRENE PYRENE ANILINE BENZYL ALCOHOL 4-CHLOROANILINE DIBENZOFURAN 2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE 4-NITROANILINE	200 II	
3.50		4-NITROANILINE	200 11	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

ABORATORY NAME: SPECTRIX

_AE SAMPLE ID NO. : 840602211

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY:

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

PP#		COMPOUND	UG/L
(2V)	107-02-8	ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1, 1-TRICHLOROETHANE 1, 1-DICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER	100 U
(3V)	107-13-1	ACRYLONITRILE	100 U
(4V)	71-43-2	BENZENE	5 U
(6V)	56-23-5	CARBON TETRACHLORIDE	5 U
(7V)	108-90-7	CHLOROBENZENE	5 U
(10V)	107-06-2	1, 2-DICHLOROETHANE	1 U
(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE	5 U
(13V)	75-34-3	1,1-DICHLOROETHANE	5 U
(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE	5 U
(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10 U
16V)	75-00-3	CHLOROETHANE	10 U
(19V)	110-75-8	2-CHLOROETHYLVINYL ETHER	10 U
(53A)	67-66-3	CHLOROFORM	15
(29V)	75-35-4	1, 1-DICHLOROETHENE	5 U
(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE	5 U
(32V)	78-87-5	1, 2-DICHLOROPROPANE	10 U
(33V)	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5 U
()	10061-01-5	CIS-1, 3-DICHLOROPROPENE	5 U
(38V)	100-41-4	ETHYLBENZENE	50 1115
(44V)	75-09-2	METHYLENE CHLORIDE	6 11 C/WCT
(45V)	74-87-3	CHLOROMETHANE	10 U
(46V)	74-83-9	BROMOMETHANE	10 U
(47V)	75-25-2	BROMOFORM	10 U
(48V)	75-27-4	BROMODICHLOROMETHANE	5 U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5 U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	5 U
(51V)	124-48-1	CHLORODIBROMOMETHANE	5 U
(85V)	127-18-4	TETRACHLOROETHENE	5 0
(867)	108-88-3	TOLUENE	5 0
(877)	79-01-6	TRICHLOROETHENE	5 0
(887)	75-01-4	VINYL CHLORIDE	10 0
()	67-64-1	ACETONE	5 0
()	78-93-3	2-BUTANONE	5 0
()	75-15-0	CARBONDISULFIDE	1 0
()	519-78-6	2-HEXANONE	5 0
()	108-10-1	CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPANE TRANS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE CHLORODIFLUOROMETHANE CHLORODIBROMOMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	5 0
()	100-42-5	STYRENE	5 0
· ()	108-05-4	VINYL ACETATE	5 0
()	1330-20-7	TOTAL XYLENES	5 0

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

000104

				LOW LEV	EL WATER
ORGANIC	ANALYSIS DATA S	HEET - Page 3		7908-8	
FORM II		Doc. Co	entrol No:	2705-0	-00
Laboratory Name: SPECTRIX CORPORATION		Case No		2903-8 2903 70	
Lab Sample I.D. No: 8406022					
Date Received: 6/15/84				6/26/84	
Date Extracted: 6/20/84	PESTIC	IDES Factor:	Conc	00 DI1.	
MULTIPLY ALL V	ALUES AND DETECTI	ON LIMITS BY O	/		
PP CAS I	<u>vg/1</u>	PP 4	CAS 1		<u>wg/1</u>
(89P) 309-00-2 aldrin	10 U	(102P) 3	319-84-6	BHC-Alpha	10 N
(90P) 60-57-1 dieldrin	10 U		319-85-7	BHC-Bete	10 U
(91P) 57-74-9 chlordane	10 U	(104P) 3	319-86-8	BHC-Delta	10 U
(92P) 50-29-3 4,4'-DDT	10 U		58-89-9	BHC-Gauca	10 U
(93P) 72-55-9 4,4'-DDE	10 U		3469-21-9	PCB-1242	200 U
(94P) 72-54-8 4,4'-DDD	10 U		1097-69-7	PCB-1254	200 U
(95P) 115-29-7 endosulfan I	10 U		1104-28-2	PCB-1221	200 U
(96P) 115-29-7 endosulfan II	10 U		1141-16-5	PCB-1232	200 U
(97P) 1031-07-8 endosulfen sulfate	10 U		2672-29-6	PC8-1248	200 U
(98P) 78-20-8 endrin	10 U	(111P) 11		PC8-1260	200 U
(99P) 7421-43-4 endrin aldehyde	10 U		2674-11-2	PCB-1016	200 U
(100P) 76-44-8 heptachlor	10 U		8001-35-2	toxaphene	200 U
(101P) 1024-57-3 heptachlor epoxide	10 U	1.2.7			
FACTOR: 5 [Vp(mL)]x / [D.F.]0/					
Vp = Final volume of extract	D.F D1	lution factor		¥	VVI
$V_{\rm I}$ = Initial weight of sample extracted					
	DIOXINS	W/A			
MULTIPLY ALL VALUES	AND DETECTION L	IMITS BY	-	Date Analy	zed:
				Factor: C	onc Dil
PP CAS	<u>ug/1</u>				
2,3,7,8-tetrachlorodibenzo-					
(129E) 1747-01-6 p-dioxin	5 U				*
FACTOR: [VF(mL)]x	······································	ID.F.l =			
[V _I (mL)]					
V _F = Final volume of extract	D.F D1	lution factor			
V ₁ = Initial weight of sample extracted		1 -1			
	DATA REPORTI	NG QUALIFIERS			
Value - If the result is a value greater than or	equal to the	es - This flag a	pplies to	pesticides param	eters where the
detection limit, report the value.		identificat	ion has be	en performed uni	ng two column
		confirmatio	n (as apec	ified in method	608) but the level
U - Indicates compound was analyzed for but	not detected.	is too low	for verifi	cation of the co	mpound by mass

- Actual value, within the limitations of this method,

indicates the presence of a compound that meets the

identification criteria but the quantitative result

then sero.

is less than the specified detection limit but greater

of the concentration detected in sample. 000105

- Compound not detected: blank value for the compound was greater than 1/2 of the MDL and greater than 1/2

GW-60

DRGANICS ANALYSIS DATA SHEET - PAGE 1

ABORATORY NAME: SPECTRIX

LAB SAMPLE ID NO.: 840602212

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY:

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6-15-89 ...

SEMIVOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 6-16-84

DATE ANALYZED: 07/12/84

PERCENT MOISTURE:

DATAFILE: EU06022012

CONC.) OR DILUTION FACTOR: 50

PP#	CAS #	COMPOUND N-NITROSODIMETHYLAMINE 2, 4, 6-TRICHLOROPHENOL P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2-NITROPHENOL 4-NITROPHENOL 4, 6-DINITROPHENOL 4, 6-DINITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4-METHYLPHENOL 2, 4, 5-TRICHLOROPHENOL ACENAPHTHENE BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 2-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 3-DICHLOROBENZENE 1, 4-DINITROTOLUENE 2, 4-DINITROTOLUENE 2, 6-DINITROTOLUENE 1, 2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL PHENYL ETHER BIS(2-CHLOROISOPROPYL) ETHER BIS(2-CHLOROETHOXY) METHANE HEXACHLOROBUTADIENE	UG/L	
(61B)	62-75-9	N-NITROSODIMETHYLAMINE	200 U	
(21A)	88-04-2	2,4,6-TRICHLOROPHENOL	200 U	
(22A)	59-50-7	P-CHLORD-M-CRESOL	200 U	
(24A)	95-57-8	2-CHLOROPHENOL	200 U	
(31A)	120-83-2	2,4-DICHLOROPHENOL	200 U	
(34A)	105-67-9	2,4-DIMETHYLPHENOL	200 U	
(57A)	88-75-5	2-NITROPHENOL	400 U	
(58A)	100-02-7	4-NITROPHENOL	1000 U	
(59A)	51-28-5	2,4-DINITROPHENOL	1000 U	
50A)	534-52-1	4,6-DINITRO-2-METHYLPHENOL	400 U	
(64A)	87-86-5	PENTACHLOROPHENOL	200 U	
(65A)	108-95-2	PHENOL	200 U	
()	65-85-0	BENZOIC ACID	5000 N	
()	95-48-7	2-METHYLPHENOL	100 U	
()	108-39-4	4-METHYLPHENOL	100 U	
()	95-95-4	2, 4, 5-TRICHLOROPHENOL	5000 N	
(1B)	83-32-9	ACENAPHTHENE	200 U	
(5B)	92-87-5	BENZIDINE	800 U	
(BB)	120-82-1	1, 2, 4-TRICHLOROBENZENE	200 U	
(9B)	118-74-1	HEXACHLOROBENZENE	200 U	
(12B)	67-72-1	HEXACHLORDETHANE	200 U	
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	200 U	
(20B)	91-58-7	2-CHLORONAPHTHALENE	200 U	
(25B)	95-50-1	1,2-DICHLOROBENZENE	200 U	
(26B)	541-73-1	1,3-DICHLOROBENZENE	200 U	
(27B)	106-46-7	1,4-DICHLOROBENZENE	200 U	
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	400 U	
(35B)	121-14-2	2,4-DINITROTOLUENE	400 U	
(36B)	909-50-5	2,6-DINITROTOLUENE	400 U	
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	400 U	
(39B)	206-44-0	FLUORANTHENE	200 U	
(40B)	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	200 U	
(41B)	101-55-3	4-BROMOPHENYL PHENYL ETHER	200 U	
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL) ETHER	400 U	
(43B)	111-91-1	BIS(2-CHLOROETHOXY) METHANE	400 U	
('SB)	87-68-3	HEXACHLOROBUTADIENE	200 U	
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	200 U	
(54B)	78-59-1	BIS(2-CHLOROETHOXY) METHANE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIENE ISOPHORONE	200 U	000128
				000 3.10

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET CONTINUED

DATAFILE EU06022C12

PP#	CAS #	COMPOUND	UG/L	-
(55B)	91-20-3	NAPHTHALENE NITROBENZENE N-NITROSODIPHENYLAMINE	200 U	
(56B)	98-95-3	NITROBENZENE	200 U	
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	200 U	
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	200 U	
(66B)		BIS(2-ETHYLHEXYL) PHTHALATE		
(67B)	85-68-7	BENZYL BUTYL PHTHALATE	200 U	
(8B)	84-74-2	DI-N-BUTYL PHTHALATE	200 K	
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	200 U 200 U	
(70B)	84-66-2	DIETHYL PHTHALATE	200 U	
(71B)	131-11-3	DIMETHYL PHTHALATE	200 U	
(72B)	56-55-3	BENZO(A)ANTHRACENE	200 U	
(73B)	50-32-8	BENZO(A)PYRENE	400 U	
(74B)	205-99-2	BENZO(B)FLUORANTHENE	400 U	
(75B)	207-08-9	BENZO(K)FLUORANTHENE	400 U	
(76B)	218-01-9	CHRYSENE	400 U	
(77B)	208-96-8	ACENAPHTHYLENE	200 U	
(78B)	120-12-7	ANTHRACENE	200 U	
79B)	191-24-2	BENZO (GHI) PERYLENE	400 U	
(80B)	86-73-7	FLUORENE	200 U	
(81B)	85-01-8	PHENANTHRENE	200 U	
(82B)	53-70-3	DIBENZO(A, H) ANTHRACENE	400 U	
(83B)	193-39-5	INDEND(1,2,3-CD)PYRENE	400 U	
(84B)	129-00-0	PYRENE	200 U -	
()	62-53-3	ANILINE	200 U	
()	100-51-6	BENZYL ALCOHOL	200 U 400 U 1000 U 200 U	
()	106-47-8	4-CHLOROANILINE	1000 U	
()	132-64-9	DIBENZOFURAN	200 U	
()	91-57-6	2-METHYLNAPHTHALENE 2-NITROANILINE 3-NITROANILINE 4-NITROANILINE	400 U	
()	88-74-4	2-NITROANILINE	2000 U	
()	99-09-2	3-NITROANILINE	2000 U	
()	100-01-6	4-NITROANILINE	2000 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

C = AMOUNT HAS BEEN CORRECTED FOR THE AMOUNT IN THE BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 2)

*.ABORATORY NAME: SPECTRIX _AB SAMPLE ID NO.: 840602212

_AB SAMPLE ID NO. : 840602212

SAMPLE MATRIX: WATER

DATA RELEASE AUTHORIZED BY: WCF

CASE NO.: 2903 QC REPORT NO.: 70

CONTRACT NO.: 68-01-6728

DATE SAMPLE RECEIVED: 6/15/84

VOLATILES

CONCENTRATION: LOW

DATE EXTRACTED/PREPARED: 06/21/84

DATE ANALYZED: 06/21/84

PERCENT MOISTURE:

		-			
	PP#	CAS #	COMPOUND	UG/L	
	(2V)	107-02-8	ACROLEIN ACRYLONITRILE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE 1, 2-DICHLOROETHANE 1, 1-TRICHLOROETHANE 1, 1-DICHLOROETHANE 1, 1, 2-TRICHLOROETHANE 1, 1, 2-TRICHLOROETHANE CHLOROETHANE	100 U	
	(3V)	107-13-1	ACRYLONITRILE	100 U	
	(4V)	71-43-2	BENZENE	5 U	
	(6V)	56-23-5	CARBON TETRACHLORIDE	5 U	
	(7V)	108-90-7	CHLOROBENZENE	5 U	
	(10V)	107-06-2	1, 2-DICHLOROETHANE	1 U	
	(11V)	71-55-6	1, 1, 1-TRICHLOROETHANE	5 U	
	(13V)	75-34-3	1, 1-DICHLOROETHANE	5 U	
	(14V)	79-00-5	1, 1, 2-TRICHLOROETHANE	5 U	
4000	(15V)	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	10 U	
1	190)	75-00-3	CHLOROETHANE	10 U	
	(19V)	110-75-8	2-CHLOROETHYLVINYL ETHER	10 U	
	(23V)	67-66-3	CHLOROFORM	5 U	
	(29V)	75-35-4	1, 1-DICHLOROETHENE	5 0	
	(30V)	156-60-5	TRANS-1, 2-DICHLOROETHENE	5 U	
	(32V)	78-87-5	1, 2-DICHLOROPROPANE	10 0	
	(334)	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	5 0	
	()	10061-01-5	CIS-1, 3-DICHLOROPROPENE	5 0	
	(387)	100-41-4	ETHYLBENZENE	50 116	G
	(44V)	75-09-2	METHYLENE CHLORIDE	10 25 C 1WC	
	(45V)	74-87-3	CHLOROMETHANE	10 0	
	(46V)	74-83-9	BROMOMETHANE	10 0	
	(470)	75-25-2	BROMOFORM	10 0	
	(48V)	75-27-4	BROMODICHLOROMETHANE	5 0	
	(490)	75-69-4	FLUOROTRICHLOROMETHANE	5 U	
	(500)	75-71-8	DICHLORODIFLUOROMETHANE	5 0	
	(517)	124-48-1	CHLORODIBROMOMETHANE	5 0	
	(850)	127-18-4	TETRACHLOROETHENE	5 0	
	(864)	108-88-3	TOLUENE	5 0	
	(8/4)	79-01-6	TRICHLOROETHENE	5 0	
	(884)	75-61-4	VINYL CHLORIDE	10 0	
	()	67-64-1	ACETONE	5 0	
	, ,	75-73-3	2-BUTANUNE	5 0	
	, ,	73-13-6	CARBONDISULFIDE	1 0	
	, ,	100 10 1	1, 1, 2-TRICHLOROETHANE 1, 1, 2, 2-TETRACHLOROETHANE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER CHLOROFORM 1, 1-DICHLOROETHENE TRANS-1, 2-DICHLOROETHENE 1, 2-DICHLOROPROPANE TRANS-1, 3-DICHLOROPROPENE CIS-1, 3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE CHLOROMETHANE BROMOMETHANE BROMOFORM BROMODICHLOROMETHANE FLUOROTRICHLOROMETHANE TCHLORODIFLUOROMETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE VINYL CHLORIDE ACETONE 2-BUTANONE CARBONDISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE TOTAL XYLENES	5 0	
1	. ()	100-10-1	4-LIE I HALTELLEN I ANONE	5 0	
E		100-42-5	DITALL	5 0	000130
	()	108-05-4	VINYL ACETATE	5 U	00020
	()	1330-20-7	TOTAL XYLENES	5 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

K = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

B = AMOUNT IN BLANK IS GREATER THAN 1/2 THE AMOUNT DETECTED

indicates the presence of a compound that meets the identification criteria but the quantitative result

is less than the specified detection limit but greater

ORGANICE AL	ORGANICE ANALYSIS DATA SHEET - Page 3				
FORM II		Dec. Control No. 2	903-8 -01		
Laboratory Mame: SPECTRIX CORPORATION		Doc. Control Mo: 2 Case Mo: 2	903		
Leb Semple I.D. Not 8406022		QC Report No: 2	0		
Date Received: 6/15/84		Date Analyzed: 6/			
Date Received: 6/15/84 Date Extracted: 6/20/84	PESTICIDES	Pactors Conc. 10			
MULTIPLY ALL VALUES AND DETECTION LIMITS BY					
PP \$ CAS \$	<u>ug/1</u>	PP 1 CAS 1	<u>ug/1</u>		
(89P) 309-00-2 aldrin	10 U	(102P) 319-84-6 BHC-	-Alpha 10 U		
	10 U		-Beta 10 U		
	10 U		-Delta 10 U		
	10 U		-Cattea 10 U		
	10 U	(106P) 53459-21-9 PCB-			
	10 U		-1254 200 U		
	10 U				
	10 U	(108P) 11104-28-2 PCB-			
		(109P) 11141-16-5 PCB-			
	10 U	(110P) 12672-29-6 PCB			
	10 U	(111P) 11096-82-5 PCB			
	10 U	(112P) 12674-11-2 PCB			
	10 U	(113P) 8001-35-2 tox	achene 200 U		
(101P) 1024-57-3 heptachlor epoxide	10 U				
	/ [D.		A		
	10.		1111		
300 [V1(nL)]					
			11/1/1		
Vy = Final volume of extract	D.F Dilution	factor	(0 - 0 - 1		
VI = Initial weight of mample extracted					
	DIOXINS				
MULTIPLY ALL VALUES AN	D DETECTION LIBITS B	v	Date Analyzed:		
		* *************************************	Factor: Conc. Dil.		
PP CAS (m (1		Paccot. Conc.		
	9/1				
2,3,7,8-tetrachlorodibenzo-	*	×			
(tenal team of the contract of					
gazz, marcino postorii	<u> </u>				
FACTOR: [Ve(mL)]x	*				
	IP.	Eal =			
[V _I (mL)]					
V _F = Final volume of extract	D.F. = Dilution	factor			
V _I = Initial weight of sample extracted					
	DATA REPORTING QUAL	IFIERS			
Value - If the result is a value greater than or eq	ual to the	This flag applies to pesti	cides parameters where the		
detection limit, report the value.		identification has been pe	riormed using two column		
		confirmation (as specified	in Method 608) but the level		
U - Indicates compound was analyzed for but not	detected.	is too low for verification	n of the compound by mass		
The number is the sinisus detection times					

000131

- Compound not detected: blank value for the compoundwas greater than 1/2 of the SDL and greater than 1/2

2 SITE INSPECTION REPORT

DATE OF INSPECTION:

June 12, 13, 14, 1984

FACILITY:

Columbine Landfill

EPA ID #:

COD980635379

LOCATION:

The facility is at the intersection of Weld County Roads 5 and 6, about 9 miles nor n of I-25 and 120th

Ave., Denver, Colorado. (See attached map)

CONTACT:

Steve Orzynski, Director Technical Services (303) 450-2755 or 2756, Kierns Corporation

1333 West 120th, Suite 210 Northglenn, Colorado 80234

INSPECTORS:

Scott Winters, Team Leader Dennis Hotovec, Team Member Mark Mullis, Team Member (E&E)

WEATHER CONDITIONS:

June 12, 1984 Partly Cloudy, 75°F to 80°F

June 13, 1984 Clear, 75°F changed cloudy; rain 65°F

June 14, 1984 Clear, Muggy, 75°F to 80°F

TIME IN:

June 12, 1984: 1310 June 13, 1984: 0830 June 14, 1984: 0900

TIME OUT:

June 12, 1984: 1700 June 13, 1984: 1900 June 14, 1984: 1324

Site History: This facility is an active landfill which began operations around 1965 and was originally owned by Mr. Kenneth Pratt (303) 776-6822. This operation occupied about 25 acres of land and accepted 84,000 gallons of chemical wastes from IBM from 1965 to 1969. These wastes included solvents and unspecified organics, inorganics, acids and bases. The old operation was shut down in 1970.

In 1980 the Kiernes Corporation aquired about 170 acres of land west of the old "Pratt Property". The company applied for and received a Certificate of Designation from the Weld County Commissioners, with the appropriate recommendation for approval for the Colorado Department of Health. In 1983 the present company requested an expansion of their operational area to include the old property. Currently this landfill operation occupies a total of 195 acres of land.

Beneath this active landf is the old Columbine Coal Min inactive. This mine area _ classified by the Colorado Geological Survey as having a high hazard potential for subsidence. Above and below the mine area are three saturated intervals that have been identified by the facility's consultants. The first interval is near surface, at a depth of about 25 to 30 feet and is reported to be a very thin saturated interval which is confined to the drainages in which this system exists. On site are no indications of any surface expression for this saturated interval. Directly beneath this aquifer, at a depth of about 40 to 60 feet is a second perched ground water system. Both shallow systems have been reported as probably discharging into Coal Creek or the associated alluvium. Beneath the entire site at a depth of 400 to 450 feet is the Laramie Fox Hills Aguifer. The potentiometric surface thi aquife: a proximately 200 feet below land surface which indicates that the aquifer is under artesian conditions.

This facility is located in an upland area characterized by gently sloping topography with a maximum slope of about 10 percent. Topographic relief for this area is about 80 feet with three surface water runoff containment ponds located onsite. About 1/2 mile west of this property are two dry stock watering ponds which were constructed across the principal drainage, discharging offsite. All 5 ponds are about 15 feet deep and are about 100 x 100 feet in extent.

The existing landuse around this site is principally agricultural. About 1 1/2 miles northwest of this site is the town of Erie. The present population for this town is about 2,300 with approximately 10 people residing within 1 mile of the site. All of these residences are located upgradient from the site. Therefore, the principal population at risk for this area is the town of Erie. Because the original wastes were disposed of below ground surface by several layers of municipal wastes the principal pathway for human exposure would be either groundwater or surface water.

From review of the water wells registered with the State Engineers Office, within a 1 mile radius of this site two principal sources of ground waters are used by the residents in this area. These sources of water are the Coal Creek Alluvium and the Laramie-Fox Aquifer. These wells have been registered for domestic and livestock uses and are about 35 feet deep in the alluvium and 700 feet deep into the Laramie-Fox Hills Aquifer.

On June 12, 1984, the inspectors met Mr. Steve Orzynski, (Director of Technical Services for Colorado Landfill System Inc,) on site to take a tour of the facility, locate and establish the depths of all monitoring wells and to inspect the surface water runoff containment ponds located on site. Further, the inspectors were onsite to evacuate the monitoring wells prior to sampling the next day. It was discovered that are six test holes actually used as monitoring wells, located on site. Of these six holes only three contained water of sufficient quantity that could be collected for groundwater sampling purposes. All three ponds located on site contained sufficient water to be sampled the next day.

No waters were contained within the offsite ponds at the time of inspection and they could not be sampled. All surface water samples were collected by using a stainless steel clamp attached to a 4 foot metal rod and clamping the individual bottles in this device. Once the bottles were secured they were lowered, inverted, into the surface water until the desired sampling depth was reached. At that time they were turned over and allowed to fill. Once filling was completed they were removed and capped for shipment. All soil samples collected at this facility were obtained by using a decontaminated plastic scoop.

All groundwater samples were collected using a stainless steel bailer with a dedicated rope for each monitoring well. After the samples were collected, in a stainless steel bucket they were poured into either a sample bottle or into a barrel filter for collection of the inorganic samples. These samples were then filtered using a 45 micron filter. The samples were then placed into the sample bottles and acidified using nitric acid. (Note: Groundwater wells used were probably not constructed with low level organic chemical sampling in mind.)

The equipment was then decontaminated using a tap water rinse and scrubbing brush, then a triple rinse in acetone, air dried and then a triple deionized water rinse before reuse. The rope and all waste material was disposed of at the site in plastic bags.

Groundwater sample number 1 located along the east boundary of the entire site, including the old Pratt Property. This sample was at a depth of about 90 feet and was collected as a composite grab sample. The pH and conductivity for these samples were 6.8 at a temperature 26° C and 10250 umhos/cm respectively.

Test hole number 8 was the location for groundwater sample number 2. The water level for this hole was approximately 24 feet. Again a composite grab sample was collected from this location and a pH and conductivity were obtained from this sample. The pH was 6.9 at a temperature of 22°C and the conductivity was 8600 umhos/cm. This sample was very turbid due to the method employed in obtaining the necessary samples. The method used was to drop the bailer down hole continuously and splash the liquid into the bailer until the necessary amount of sample was collected.

A groundwater blank was submitted to the laboratories assigned this facility. The organic samples were prepared using organic free water-obtained from Fisher Scientific, Lot number 732033. The conductivity for this sample ranged between 6.4 & 7.8 at a temperature of 22°C and had a conductivity of 5.4 umhos/cm. The inorganic sample was prepared using deionized water obtained from the Colorado Department of Health's Laboratory Division. No pH or conductivity was obtained for this sample because of acidification of the sample before the analysis could be conducted.

Surface water sample number 1 was collected from the designated leachate collection pond located at the bottom the major drainage which is used for disposal of the municipal wastes. Although this pond is about 55 feet in depth only 2 to 3 feet of liquid was contained within the pond. This 2 to 3 feet of liquids was about 15 x 30 feet in areal extent.

The sample was collected a depth of about 6 to 8 inches. 'fter collection of this sample a pH and constitutivity reading were taken with the following results. The pH of this sample was 8.1 at a temperature of 23°C and the conductivity was 2400 umhos/cm.

Surface water sample number 2 is a pond designated as a surface water runoff control pond. This pond is the north runoff control containment area and the sample was collected on the south side of this pond. The sample was collected at a depth of about 6 inches. Again pH and conductivity readings were obtained for this sample. The pH at 22°C was 8.9 and the conductivity was 1250 umhos/cm.

On June 14, 1984, the inspectors again arrived on site and proceeded to the remaining test hole which was scheduled for sampling. This hole, test hole 6, was about 60 feet deep with the water level at 33 1/2 feet. Because this hole had been bailed 2 days previously it was decided that the inspectors would need to evacuate this casing again to insure a valid groundwater sample. After this test hole had been bailed and allowed to recover groundwater sample number 3 and 30 (a duplicate sample of number 3) were collected. These samples were collected at an approximate depth of 45 to 50 feet and were composite grab samples. For both of these samples the pH was 6.7 at a temperature of 24°C and a conductivity of 17250 umhos/cm.

All samples collected at this facility were split with the current owners/operators of this operation and were specifically given to Mr. Orzynski. The groundwater samples were pressure filtered using nitrogen gas and a 45 micron filter paper contained within a barrel filter. The surface water samples were not filtered.

After samples were collected they were placed into plastic bottles, acidified, labeled, taped, tagged, bagged and placed into coolers containing ice. These samples were then sent via Federal Express, using the appropriate chain of custody procedures, to the assigned laboratories. The inorganic samples were sent to Cambridge Analytical Associates located at 222 Arsenal Street in Watertown, Mass. The organic analyses were performed by Spectrix Corporation located at 3911 Fondren, Suite 100, in Houston, TX. All samples were sent to the laboratories on June 14, 1984.

On September 17, 1984, the Colorado Department of Health received the laboratory data for the organic analyses. Below are the reported values for the organic constitutents detected in the samples submitted.

Organics (Surface Water) ug/1

	SW-1	SW-2
Bis (2-Ethythexyl) Phthalate	1200	
Chloroform	9	No constituants present Above
Methylene Chloride	5**	established detection limits.

(Note: ^ Indicates amount has been corrected for the amount detected in the sample blank.)

Organics (Groundwater) ug/1

Groundwater Flow

	GW-1	GW-3 and	30
		1	
Bis (2-Ethythexyl)Phthalate	0	25	0
Acetone	. 210	0	0
D'eldrin	10*	0	0
Heptachlor	10*	0	0
BHC-Gamma	14.1	0	0
Chloroform	0	15	200**
Oxybismethane	310	0	0
1,2-Propandiol,			
3,3 - Oxydi, Tetranitrate	90	0	0
1-Butene	130	0	0
Dimethoxy Methane	33	0	0
Methylene Chloride	O	6**	10**
Specific Conductivity	10250 umhos/cm	17250 umhos/cm	17250 umhos/cm

Groundwater Flow

	GW-2	GW-B
Oxybis methane	370	0
Dimethoxy Methane	37	0
Tetrahydrofuran	41	0
Chloroform	0	39
Methylene Chloride	0	6**
Specific Conductivity	8600 umhos/cm	5.4 umhos/cm

(Note: 1) * indicates compound present but below detection limit.

2) ** indicates value has been corrected for amount found in laboratory blank.)

From review of this analytical data it is the inspectors opinion that several organic compounds detected were due to field sampling and laboratory errors. The specific compounds were;

- Acetone this compound is present due to the use of acetone during the field sampling/decontamination procedures. Acetone was used as a final "rinse" to help clean the stainless steel sample containers prior to sample collection.
- 2. Chloroform and Methylene chloride these compounds were not only detected in the field samples collected but were also present in the laboratory blank. Because these compounds were detected in the laboratory blank and are commonly found in the laboratory it is assumed that these constituents were present due to laboratory error.

and Gamma BHC. These pest des have been banned from use f several years. Based upon their presence the old fill area and not do gradient in the new fill it is the inspectors opinion that these materials were used during the old landfilling operation for vector/pest control. Specifically BHC Gamma was used for cattle dips, fly and maggot control and for household use on lawns, gardens and rose beds.

Tetrahydrofuran and Bis (2-Ethylhexyl) Phthalate were detected in groundwater samples. These constituents are probably a result of degradation of plastic products and the release of these products from the PVC pipe and also used in the construction of the monitoring wells. Further, Bis (2-ethylexal) Phthalate was pund in one surface water sample which again could be due to plastic degradation and transported to the pond via onsite surface water precipitation runoff.

The last four constituents were tentatively identified compounds and are not necessarily correctly identified. These compounds are;

- 1. 1,2 Propandiol 3,3, Oxydi, Tetranitrate is an exotic compounds which is probably not found in typical municipal landfills. From conversations with the Colorado Department of Health laboratory personnel it was discovered that the GC/MS scan for this compound is so difficult to interpret that several other compound could be readily substituted, particularily if the match was made using a computer. Therefore, the inspectors decided that this information could not be considered as appropriate information for evalution of this site.
- Methane, Dimethoxy (Formal, Methylal) is reportedly used in perfumes and artifical resins. This compound is made from methonal and formaldehyde and is highly soluble in water. It is possible that the constituent tentatively identified may not be the one present.
- 3. 1-Butene is used as a polymer and alkylate gasoline which is obtained from the distillation of refinery gases. This compound could be from the disposal of old gasoline products or because the compound is again tentatively identified the reliability of this identification procedure is questionable. Therefore, the inspectors do not feel that this data should be strictly considered in any folowup work. However, the data does indicate the presence of organic compounds whic should be considered if further work is done at the facility.
- 4. Oxybis Methane is a volitle material which is probably due to the operation of this landfill. This material was used in spray cans as a propellent, a refridgerent, solvent, catalyst and a stablizer for potymerization of plastics. Therefore, even though this constituent was only tentatively identified it is the inspectors opinion that the presence of this compound is probable for this location.

Based upon the field condervty data it is the inspectors inion that the landfill is producing lead to, specifically from data obted of from test holes 1 and 6. Further, because both test holes indicate high specific conductivity it is likely that some mounding may be occurring thus allowing leachate to migrate offsite, upgradient. Once the inorganic analysis is received the soluble ionic constituents may help identify the compounds responsible for this high conductivity. However, if this data doesn't provide the necessary information it is the inspectors opinion that the inorganic parameters list should be expanded to include anions to help identify the problem constituents.

Based upon these facts it is the inspectors opinion that further followup work is needed at this site to accurately determine the presence of the organic constituents identified at this site. Further, the followup program should be designed to confirm the source of these compounds, the rate(s) and flow direction of any contaminant migration and provide an accurate determination of the potential for human exposure via surface and groundwater migration, the principal pathways of exposure, specifically to the alluvial aquifer associated with Coal Creek.

3012 SITE INSPECTION REPORT

DATE OF INSPECTION: June 12, 13, 14, 1984

FACILITY: Columbine Landfill

EPA ID #: COD980635379

LOCATION: The facility is at the intersection of Weld County

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CONTACT: Steve Orzynski, Director Technical Services

(303) 450-2755 or 2756, Kierns Corporation

1333 West 120th, Suite 210 Northglenn, Colorado 80234

INSPECTORS: Scott Winters, Team Leader

Dennis Hotovec, Team Member Mark Mullis, Team Member (E&E)

WEATHER CONDITIONS: June 12, 1984 Partly Cloudy, 75°F to 80°F

June 13, 1984 Clear, 75°F changed cloudy; rain 65°F

June 14, 1984 Clear, Muggy, 75°F to 80°F

TIME IN: June 12, 1984: 1310

June 13, 1984: 0830 June 14, 1984: 0900

TIME OUT: June 12, 1984: 1700

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Groundwater Flow

	GW-1	GW-3 and	30
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Acetone .	210	0	0
Dieldrin	10*	0	0
Heptachlor	10*	0	0
BHC-Gamma	14.1	0	0
Chloroform	0	15	200**
Oxybismethane	310	0	0
1,2-Propandiol,			
3,3 - Oxydi, Tetranitrate	90	0	0
1-Butene	130	0	0
Dimethoxy Methane	33	0	0
Methylene Chloride	O	6**	10**
Specific Conductivity	10250 umhos/cm	17250 umhos/cm	17250 umhos/cm

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	GW-2	GW-B
Oxybis methane	370	0
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Specific Conductivity	8600 umhos/cm	5.4 umhos/cm

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From review of this analytical data it is the inspectors opinion that several organic compounds detected were due to field sampling and laboratory errors. The specific compounds were:

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3012 SITE INSPECTION REPORT

KE WED/COL

DATE OF INSPECTION:

June 12, 13, 14, 1984

FACILITY:

Columbine Landfill

EPA ID #:

COD980635379

LOCATION:

The facility is at the intersection of Weld County Roads 5 and 6, about 9 miles north of I-25 and 120th

Ave., Denver, Colorado. (See attached map)

CONTACT:

Steve Orzynski, Director Technical Services (303) 450-2755 or 2756, Kierns Corporation

1333 West 120th, Suite 210 Northglenn, Colorado 80234

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The existing landuse around this site is principally agricultural. About 1 1/2 miles northwest of this site is the town of Erie. The present population for this town is about 2,300 with approximately 10 people residing within 1 mile of the site. All of these residences are located upgradient from the site. Therefore, the principal population at risk for this area is the town of Erie. Because the original wastes were disposed of below ground surface by several layers of municipal wastes the principal pathway for human exposure would be either groundwater or surface water.

From review of the water wells registered with the State Engineers Office, within a 1 mile radius of this site two principal sources of ground waters are used by the residents in this area. These sources of water are the Coal Creek Alluvium and the Laramie-Fox Aquifer. These wells have been registered for domestic and livestock uses and are about 35 feet deep in the alluvium and 700 feet deep into the Laramie-Fox Hills Aquifer.

On June 12, 1984, the inspectors met Mr. Steve Orzynski, (Director of Technical Services for Colorado Landfill System Inc,) on site to take a tour of the facility, locate and establish the depths of all monitoring wells and to inspect the surface water runoff containment ponds located on site. Further, the inspectors were onsite to evacuate the monitoring wells prior to sampling the next day. It was discovered that are six test holes actually used as monitoring wells, located on site. Of these six holes only three contained water of sufficient quantity that could be collected for groundwater sampling purposes. All three ponds located on site contained sufficient water to be sampled the next day.

On June 13 the inspectors re led to this facility and began ling. Test holes one, eight and six were sampled as well as two of the the surface water ponds located onsite.

No waters were contained within the offsite ponds at the time of inspection and they could not be sampled. All surface water samples were collected by using a stainless steel clamp attached to a 4 foot metal rod and clamping the individual bottles in this device. Once the bottles were secured they were lowered, inverted, into the surface water until the desired sampling depth was reached. At that time they were turned over and allowed to fill. Once filling was completed they were removed and capped for shipment. All soil samples collected at this facility were obtained by using a decontaminated plastic scoop.

All groundwater samples were collected using a stainless steel bailer with a dedicated rope for each monitoring well. After the samples were collected, in a stainless steel bucket they were poured into either a sample bottle or into a barrel filter for collection of the inorganic samples. These samples were then filtered using a 45 micron filter. The samples were then placed into the sample bottles and acidified using nitric acid. (Note: Groundwater wells used were probably not constructed with low level organic chemical sampling in mind.)

The equipment was then decontaminated using a tap water rinse and scrubbing brush, then a triple rinse in acetone, air dried and then a triple deionized water rinse before reuse. The rope and all waste material was disposed of at the site in plastic bags.

Groundwater sample number 1 located along the east boundary of the entire site, including the old Pratt Property. This sample was at a depth of about 90 feet and was collected as a composite grab sample. The pH and conductivity for these samples were 6.8 at a temperature 26°C and 10250 umhos/cm respectively.

Test hole number 8 was the location for groundwater sample number 2. The water level for this hole was approximately 24 feet. Again a composite grab sample was collected from this location and a pH and conductivity were obtained from this sample. The pH was 6.9 at a temperature of 22°C and the conductivity was 8600 umhos/cm. This sample was very turbid due to the method employed in obtaining the necessary samples. The method used was to drop the bailer down hole continuously and splash the liquid into the bailer until the necessary amount of sample was collected.

A groundwater blank was submitted to the laboratories assigned this facility. The organic samples were prepared using organic free water-obtained from Fisher Scientific, Lot number 732033. The conductivity for this sample ranged between 6.4 & 7.8 at a temperature of 22°C and had a conductivity of 5.4 umhos/cm. The inorganic sample was prepared using deionized water obtained from the Colorado Department of Health's Laboratory Division. No pH or conductivity was obtained for this sample because of acidification of the sample before the analysis could be conducted.

Surface water sample number 1 was collected from the designated leachate collection pond located at the bottom the major drainage which is used for disposal of the municipal wastes. Although this pond is about 55 feet in depth only 2 to 3 feet of liquid was contained within the pond. This 2 to 3 feet of liquids was about 15×30 feet in areal extent.

-

The sample was collected at spth of about 6 to 8 inches. For collection of this sample a pH and conductivity reading were taken with following results. The pH of this sample was 8.1 at a temperature of 23°C and the conductivity was 2400 umhos/cm.

Surface water sample number 2 is a pond designated as a surface water runoff control pond. This pond is the north runoff control containment area and the sample was collected on the south side of this pond. The sample was collected at a depth of about 6 inches. Again pH and conductivity readings were obtained for this sample. The pH at 22°C was 8.9 and the conductivity was 1250 umhos/cm.

On June 14, 1984, the inspectors again arrived on site and proceeded to the remaining test hole which was scheduled for sampling. This hole, test hole 6, was about 60 feet deep with the water level at 33 1/2 feet. Because this hole had been bailed 2 days previously it was decided that the inspectors would need to evacuate this casing again to insure a valid groundwater sample. After this test hole had been bailed and allowed to recover groundwater sample number 3 and 30 (a duplicate sample of number 3) were collected. These samples were collected at an approximate depth of 45 to 50 feet and were composite grab samples. For both of these samples the pH was 6.7 at a temperature of 24°C and a conductivity of 17250 umhos/cm.

All samples collected at this facility were split with the current owners/operators of this operation and were specifically given to Mr. Orzynski. The groundwater samples were pressure filtered using nitrogen gas and a 45 micron filter paper contained within a barrel filter. The surface water samples were not filtered.

After samples were collected they were placed into plastic bottles, acidified, labeled, taped, tagged, bagged and placed into coolers containing ice. These samples were then sent via Federal Express, using the appropriate chain of custody procedures, to the assigned laboratories. The inorganic samples were sent to Cambridge Analytical Associates located at 222 Arsenal Street in Watertown, Mass. The organic analyses were performed by Spectrix Corporation located at 3911 Fondren, Suite 100, in Houston, TX. All samples were sent to the laboratories on June 14, 1984.

On September 17, 1984, the Colorado Department of Health received the laboratory data for the organic analyses. Below are the reported values for the organic constitutents detected in the samples submitted.

Organics (Surface Water) ug/1

	SW-1	SW-2
Bis (2-Ethythexy1) Phthalate	1200	
Chloroform	9	No constituants present Above
Methylene Chloride	5**	established detection limits.

Organics (Groundwater) ug/1

Groundwater Flow

	GW-1	GW-3 and	30
Bis (2-Ethythexyl)Phthalate	e 0	25	0
Acetone	210	0	0
Dieldrin	10*	0	0
Heptachlor	10*	0	0
BHC-Gamma	14.1	0	0
Chloroform	0	15	200**
Oxybismethane	310	0	0
1,2-Propandiol,			
3,3 - Oxydi, Tetranitrate	90	0	0
1-Butene	130	0	0
Dimethoxy Methane	33	0	0
Methylene Chloride	0	6**	10**
Specific Conductivity	10250 umhos/cm	17250 umhos/cm	17250 umhos/cm

Groundwater Flow

	GW-2	GW-B
Oxybis methane	370	0
Dimethoxy Methane	37	0
Tetrahydrofuran	41	0
Chloroform	0	39
Methylene Chloride	0	6**
Specific Conductivity	8600 umhos/cm	5.4 umhos/cm

(Note: 1) * indicates compound present but below detection limit.

2) ** indicates value has been corrected for amount found in laboratory blank.)

From review of this analytical data it is the inspectors opinion that several organic compounds detected were due to field sampling and laboratory errors. The specific compounds were;

- 1. Acetone this compound is present due to the use of acetone during the field sampling/decontamination procedures. Acetone was used as a final "rinse" to help clean the stainless steel sample containers prior to sample collection.
- 2. Chloroform and Methylene chloride these compounds were not only detected in the field samples collected but were also present in the laboratory blank. Because these compounds were detected in the laboratory blank and are commonly found in the laboratory it is assumed that these constituents were present due to laboratory error.

The pesticides that were dete d at this location were Dieldrin, Heptachlor and Gamma BHC. These pestici have been banned from use for veral years. Based upon their presence near the old fill area and not down dient in the new fill it is the inspectors opinion that these materials were used during the old landfilling operation for vector/pest control. Specifically BHC Gamma was used for cattle dips, fly and maggot control and for household use on lawns, gardens and rose beds.

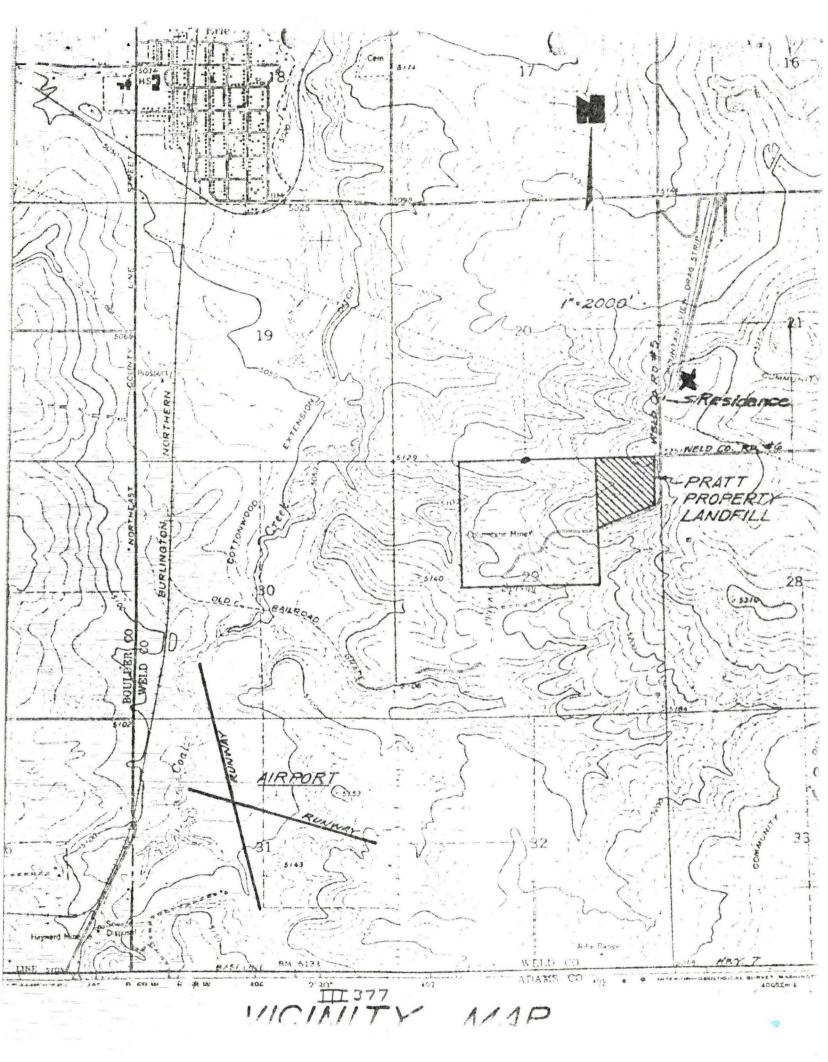
Tetrahydrofuran and Bis (2-Ethylhexyl) Phthalate were detected in groundwater samples. These constituents are probably a result of degradation of plastic products and the release of these products from the PVC pipe and glue used in the construction of the monitoring wells. Further, Bis (2-ethylexal) Phthalate was found in one surface water sample which again could be due to plastic degradation and transported to the pond via onsite surface water precipitation runoff.

The last four constituents were tentatively identified compounds and are not necessarily correctly identified. These compounds are;

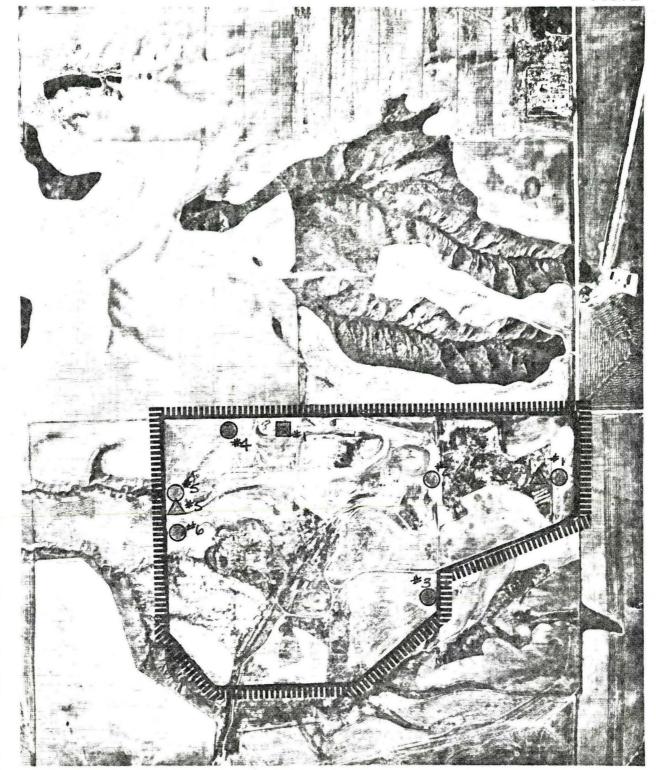
- 1. 1,2 Propandiol 3,3, Oxydi, Tetranitrate is an exotic compounds which is probably not found in typical municipal landfills. From conversations with the Colorado Department of Health laboratory personnel it was discovered that the GC/MS scan for this compound is so difficult to interpret that several other compound could be readily substituted, particularily if the match was made using a computer. Therefore, the inspectors decided that this information could not be considered as appropriate information for evalution of this site.
- Methane, Dimethoxy (Formal, Methylal) is reportedly used in perfumes and artifical resins. This compound is made from methonal and formaldehyde and is highly soluble in water. It is possible that the constituent tentatively identified may not be the one present.
- 3. 1-Butene is used as a polymer and alkylate gasoline which is obtained from the distillation of refinery gases. This compound could be from the disposal of old gasoline products or because the compound is again tentatively identified the reliability of this identification procedure is questionable. Therefore, the inspectors do not feel that this data should be strictly considered in any folowup work. However, the data does indicate the presence of organic compounds whic should be considered if further work is done at the facility.
- 4. Oxybis Methane is a volitle material which is probably due to the operation of this landfill. This material was used in spray cans as a propellent, a refridgerent, solvent, catalyst and a stablizer for potymerization of plastics. Therefore, even though this constituent was only tentatively identified it is the inspectors opinion that the presence of this compound is probable for this location.

Based upon the field conduc y data it is the inspectors o on that the landfill is producing leachate, specifically from data obtain from test holes 1 and 6. Further, because both test holes indicate high specific conductivity it is likely that some mounding may be occurring thus allowing leachate to migrate offsite, upgradient. Once the inorganic analysis is received the soluble ionic constituents may help identify the compounds responsible for this high conductivity. However, if this data doesn't provide the necessary information it is the inspectors opinion that the inorganic parameters list should be expanded to include anions to help identify the problem constituents.

Based upon these facts it is the inspectors opinion that further followup work is needed at this site to accurately determine the presence of the organic constituents identified at this site. Further, the followup program should be designed to confirm the source of these compounds, the rate(s) and flow direction of any contaminant migration and provide an accurate determination of the potential for human exposure via surface and groundwater migration, the principal pathways of exposure, specifically to the alluvial aquifer associated with Coal Creek.









COLUMBINE LANDFILL

O MONITORING WELL A SUPACE SITE

DOMESTIC WELL

SCALE : 1"=1000

JAMES H. STEWART & ASSOC., INC.

NOTE: MONITORING " ELLS # 3,4 & 6 WERE DRY 0 MAY 23, 1983

SEPA

I. IDENTI	FICATION
O1 STATE	02 SITE NUMBER D980635-379

PART 1-SITE	LOCATION AN	D INSPECTION INFORM	MATION	10980633 31
II. SITE NAME AND LOCATION				
11 SITE NAME (Lagal, cummon, or descriptive name of site)	N 24 25	02 STREET, ROUTE NO., OR S	SPECIFIC LOCATION IDENTIFIER	00-6-
Columbine Andfull		04 STATE 105 ZIP CODE	106 COUNTY	107COUNTY 08 CON
Crie.		CO 80514	Weld	07COUNTY 08 CONG CODE DIST
40 42 04.0 105 01 20.0	A. PRIVATI	E C B. FEDERAL	☐ C. STATE ☐ D. COUN'	
I. INSPECTION INFORMATION TOATE OF INSPECTION 102 SITE STATUS	03 YEARS OF OPER	ATON.		
1 DATE OF INSPECTION 02 SITE STATUS OCITICAL STATUS OCITICAL STATUS OCITICAL STATUS OCITICAL STATUS	ah	At 1965 Prezn GINNING YEAR ENDING YEA	T UNKNOW	N
AGENCY PERFORMING INSPECTION (Check all that apply)				
A. EPA B. EPA CONTRACTOR	arne of firm)		MUNICIPAL CONTRACTOR	(Name of firm)
	ame of firms	_ G. OTHER	(Specify)	
S CHIEF INSPECTOR	OS TITLE	cologist	07 ORGANIZATION COLO Dept	08 TELEPHONE NO. (303) 320-833
Dennis Hotover	10 TITLE	11	11 OFFGANIZATION Colo Dept Health	12 TELEPHONE NO.
Mark Mullis	Con	cultent	8+8	(303)757-4784
		9	9	()
			X	()
				()
SITE REPRESENTATIVES INTERVIEWED	14 Decho	15ADDRESS 33	3 11- + 1203	16 TELEPHONE NO
Steve Ornunski	Di	retor Suite 210	(Northglenn, C	0) (30) 450-2
		,	,	()
				()
				()
				()
	†			
7 ACCESS GAINED BY (Check one) 18 TIME OF INSPECTION 06/12/84 0830 06/14/84 0900		or to 900		I temp rengine
V. INFORMATION AVAILABLE FROM				
Stove Ornaunski	Riem	2	tion	03 TELEPHONE NO. (303) 450 - 27
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	OS AGENCY CD 1+	06 ORGANIZATION	303 - 720-833	10,24,84
Scor Winless	1 43/1	1	1 0)	WONTH DAY YEAR

-	
. 22	
	١

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

00 | 0980 43 0379

ALI	•		PART 2 - WAST	E INFORMATION	4	CO 10980	0635377
II. WASTE ST	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
A. SOLID B. POWDER C. SLUDGE D. OTHER	☐ G. GAS	TONS .	of waste quantities independent)	C3 WASTE CHARACT A TOXIC A B. CORRO C RADIO D. PERSIS			NVE VE PATIBLE
III. WASTE T	The second second second second	NO. OF BROWNS		1-1,000 90	were .		
CATEGORY	SUBSTANCE N	AME	In GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE	AME	UT GACSS AMOUNT	102 UNIT OF MEASURE	US COMMENTS		
OLW	OILY WASTE		1				
SOL	SOLVENTS	*	unbenown	traknown	Total	Vol is abo	. +
PSD	PESTICIDES		Inoun	DARROWA	10101	101 13	(W)
occ	OTHER ORGANIC CH	EMICALS X	111	Unknown	8 4,00	O gallone	
ioc	INORGANIC CHEMIC		11	11	3 1700	gallons	****
ACD	ACIDS	*	11	1	\		***************************************
BAS	BASES	*	11	1,	5		
MES	HEAVY METALS						***************************************
IV. HAZARDO	OUS SUBSTANCES (See AG	apendix for most frequen	tly cited CAS Numbers		•		
1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
50/	MEK, MI	3 K CUCIOH	sene ?	Drus		unknown	
occ 1	Unknow		Unknow	unten	ome	11	
10c	Li		17	1, 17		11	
ACD	11		"	11		11	1
BAS	11		11	4		11	
V. FEEDSTO	CKS (See Appendix for CAS Number	ers)	-	,			
CATEGORY	01 FEEDSTOC	KNAME	02 CAS NUMBER	CATEGORY .	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS		•		FDS		•	
FDS-				FDS			
FDS				FDS			
FDS				FDS			
VI. SOURCES	S OF INFORMATION TOTAL	specific references. e. 7.	, state tiles, cample analysis	reportsi			
EPA &	State files						

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

2000	I. IDEN	TIFICATION
	O1 STATE	02 SITE NUMBER 098 0635 3 79

FART U-DECOMPTION OF	INDIVIDUO OUTO TOTO ATTO THOUSEN		
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 Z A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Contenue	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
From groundwater.	sengler, before	EPA	04/0c
Neview, may indica	te contaminents	in the sy	nten.
01X B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 2 300	04 NARRATIVE DESCRIPTION	X POTENTIAL	
Because The shallow.	allevial groundwater	eventua	elly
daylights probably flow's	toward Coal Creek,	about 2	mile from
site, these conditions	provide de polentid	for surfa	ce water coplane
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
None report	tel or observed		
01 Z D. FIRE EXPLOSIVE CONDITIONS	02 C OBSERVED (DATE:)	I POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
	27		
* * , /			
01 DE DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) 04 NAPRATIVE DESCRIPTION	_ POTENTIAL	☐ ALLEGED
None report	*		
03 AREA POTENTIALLY AFFECTED: 195	04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
Possible y de	une de leaber	ン	
01/AG, DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
	as given in gr	oundwat	5 and
surface water.			
01 E H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	C ALLEGED
None reported			*
, 30.2			
□01 □ I. POPULATION EXPOSURE/INJURY	02 CBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	I POTENTIAL	I ALLEGED
01 TI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 GOSSERVED (DATE:) 04 NARRATIVE DESCRIPTION	I POTENTIAL	I ALLEGED
□01 □ I. POPULATION EXPOSURE/INJURY	The state of the s	I POTENTIAL	I ALLEGED

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT CRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
O1 STATE 02 SITE NUMBER
OD D980685379

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 ☐ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
Not observed		¥	
Not oblined			4
01 E K. DAMAGE TO FAUNA	02 C OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)			
11	*		
01 L CONTAMINATION OF FOOD CHAIN	02 - OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION			
01 M. UNSTABLE CONTAINMENT OF WASTES Soills Purpoil Standing liquids, Leaking grums	02 CBSERVED (DATE:)	POTENTIAL	I ALLEGED
	04 NARRATIVE DESCRIPTION		
11	*		
			•
31 ⊆ N. DAMAGE TO OFFSITE PROPERTY	02 T OBSERVED (DATE:)	☐ POTENTIAL	
04 NARRATIVE DESCRIPTION	02 _ OBSERVED IDATE	_ POTENTIAL	I ALLEGED
70	**		
none reported			
, 65			
01 Z O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs	OS T OBSERVED (DATE:	☐ POTENTIAL	I ALLEGED
04 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE)	- POTENTIAL	_ ALLEGED
11 11			
11 (1			
01 T.P. ILLEGAL/UNAUTHORIZED DUMPING	02 - OBSERVED (DATE:)	_ POTENTIAL	I ALLEGED
04 NARRATIVE DESCRIPTION			
11 17			
,			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
2	/		
None reported o	r observed		
100.00			
			· ************************************
	tal could be about 23	00	-
IV. COMMENTS			
(1) ~ 2			
Ylone			
V. SOURCES OF INFORMATION (Cite specific references, # g., state tites,	sample analysis. (*eports:		
EPA 4 Stite & les	115		
Site ingrestion + Conversations in	Ifoulty contact		8
	2		

1	7	E.F
-	-	
3	1	

I. IDENT	TFICATION
	02 SITE NUMBER D980635 379

4/11/1	PART 4-PERM	IT AND DESCRIE	TIVE INFORMATION	(2010980638 379
II. PERMIT INFORMATION				
01 TYPE OF PERMIT ISSUED (Check all that appry)	C2 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE 05 CO	OMMENTS .
A. NPOES		**		
☐ B. UIC				
□ C. AIR				······································
		+		
☐ D. RCRA ☐ E. RCRA INTERIM STATUS				
F. SPCC PLAN				
G. STATE Specify Catty	1	ation		
☐ H. LOCAL (Specify)	inte of design	alion .	lone	
I. OTHER (Specify)				
J. NONE				
01 STORAGE/DISPOSAL (Check all that appry)	02 AMOUNT 03 UNIT	OF MEASURE 04 TI	REATMENT (Check all that apply)	OS OTHER
☐ A. SURFACE IMPOUNDMENT ☐ B. PILES ☐ C. CRUMS, ABOVE GROUND ☐ D. TANK, ABOVE GROUND		□ A.	INCENERATION UNDERGROUND INJECTION CHEMICAL PHYSICAL BIOLOGICAL	A. BUILDINGS ON SITE
E. TANK, BELOW GROUND F. LANDFILL Mohume below grows G. LANDFARM H. OPEN DUMP I. OTHER (Society)	±1500 dru	□ F. □ G.	WASTE OIL PROCESSING SOLVENT RECOVERY OTHER RECYCLING/RECO OTHER	OVERY 19 (Acres)
		8.		
IV. CONTAINMENT				
01 CONTAINMENT OF WASTES (CRECK ORE) A. ADEQUATE, SECURE	Potentiall B. MODERATE	C. INADEQ	UATE, POOR 🗆	D. INSECURE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS Line Chruns of Late (60)	ver dispo	ly 70's	, on a 10	eto 25 acreste
Y. ACCESSIBILITY				
01 WASTE EASILY ACCESSIBLE: TYL	ES XNO have been 10's of fer	buried et of sol	I for all be	tat levet 10 yrs.
VI. SOURCES OF INFORMATION ICE.	specific references, e.g. state files, san	naie analysis. (+pans)		
EPA & State Fil. Site Contacts	es	79		

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE

1. IDENTIFICATION

VETA	SITE INSPECT	TION REPORT C, AND ENVIRONMENTAL	DATA CO 0980635379
IL DRINKING WATER SUPPLY			
01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS		03 DISTANCE TO SITE
SURFACE COMMUNITY A.	WELL ENDANGERS	ED AFFECTED MONITOR	A(mi)
NON-COMMUNITY C.	D. C D. C	E. C F. C	B(mi)
III. GROUNDWATER			
21 GROUNDWATER USE IN VICINITY (Check of	one)		
☐ A. ONLY SOURCE FOR DRINKING	DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATIO (No other water sources available)	C. CCMMERCIAL, INDUSTRI (Limited other sources available	
02 POPULATION SERVED BY GROUND WAT	Within to 2 miles	03 DISTANCE TO NEAREST DRINKI	NG WATER WELL \approx 12 (mi)
04 DEPTH TO GROUNDWATER about 40-50	os direction of groundwater flow protably west	OF DEPTH TO AQUIFER OF POTT OF CONCERN OF A	ENTIAL YIELD 08 SOLE SOURCE AQUIFER NOUIFER
09 DESCRIPTION OF WELLS (Including useage. The majority for principally	depth, and location relative to population and puridings) of the welle wrightim of	within the	are are used
10 RECHARGE AREA		11 DISCHARGE AREA	
TYES COMMENTS	nom	☐ YES COMMENTS	Interior
IV. SURFACE WATER			
G1 SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOURCE	RRIGATION, ECONOMICALLY IMPORTANT RESOURCES	C. COMMERCIAL, INDUS	STRIAL D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED BO	DIES OF WATER		
Coal	Creak	A	FFECTED DISTANCE TO SITE _
		**********	(mi)
V. DEMOGRAPHIC AND PROPERTY	INFORMATION		
01 TOTAL POPULATION WITHIN		02 DISTANCE	E TO NEAREST POPULATION
ONE (1) MILE OF SITE TW A. 30450 NO. OF PERSONS		3) MILES OF SITE	(mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2)	£ (ch	04 DISTANCE TO NEAREST OFF-SIT	<i>V</i>
of POPULATION WITHIN VICINITY OF SITE A The Con area with a	mediate vicinity to town of En	incoming of site. e.g., "utal, village, demany pools is nural :	from farm of ranch to 3 miles to the
northwest.		*	*
	2		

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT T5-WATER DEMOGRAPHIC AND ENVIRONMENTAL DATA

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER 0980 635 379
Co	0480635379

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA
VI. ENVIRONMENTAL INFORMATION
01 PERMEABILITY OF UNSATURATED ZONE (Check one)
☐ A. 10 ⁻⁶ - 10 ⁻⁸ cm/sec ☐ B. 10 ⁻⁴ - 10 ⁻⁶ cm/sec ☐ C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREATER THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check one)
☐ A. IMPERMEABLE
03 DEPTH TO BEDROCK 04 CEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH
ayong 10/0-15 feet Unknown (H) Unknown
08 SLOPE SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE 8 to 12 (in) Unknown (in) 2-5% Lost Short 5%
09 FLOOD POTENTIAL mot in 10/1/1
SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minimum) 12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE CTHER(mi)
A. N/A (mi) B. 1/2 (mi) ENDANGERED SPECIES: Unlarum
13 LAND USE IN VICINITY
DISTANCE TO:
RESIDENTIAL AREAS: NATIONAL/STATE PARKS. AGRICULTURAL LANDS COMMERCIAL/INDUSTRIAL FORESTS, OR WILDLIFE RESERVES PRIME AG LAND AG LAND
adjacent to projectly
A. 2-3/4 (mi) B. alrut 2-3 (mi) C. (mi) D. (mi)
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY
The facility is located about above on all commone
with several faults existing in this area. The overall
topography is an upland area characterized by genter
slopes with a maximum slope of about 10% .
Relief in this over is approx 80 feet fronts top of
The landfill down to Coal Creek. 3 surface water containing
ponds are situated in site with 2 additional
stock ponds downslope, down change, of the site about
2 mile.
VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, (eports)
State Files
On site inspection
Conversation with faintity Contact

	TOA
V	EFA

I. IDENTIFICATION		
01 STATE 02 SITE NUMBER	R	
01 STATE 02 SITE NUMBER	35379	

SAMPLE TYPE			
SAMPLE FIFE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	C3 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	45	all invigines semples vere	Organico
SURFACE WATER	2_	submitted to Cambridge	malgnes
WASTE		analytical agroc located at	received
AIR		222 arsenal St. in Watertown.	Sept 17,198
RUNOFF		Mess	/ /
SPILL		Diginie complee were sent to	Inorganics
SOIL	8 ×	Sneeting Corp located at	not received
VEGETATION	*,	391/ Fordien, Suite 100 in Houston	at time of
OTHER	E E	Lexane	report.
III. FIELD MEASUREMENTS TA	KEN		
1 TYPE	02 COMMENTS		
nlt	Δ.	e ranged from 6.7 to 8.9	
0 1 + +	As value	11 2400 to 17200	
Conductivity			
IV. PHOTOGRAPHS AND MAPS	<u> </u>		
01 TYPE GROUND AERIAL		02 IN CUSTODY OF Cott Doget of Hearth	
03 MAPS 04 LOCATION		/ (Name of organization or individual)	
E NO	obrado.	Dept of Health	
V. OTHER FIELD DATA COLLE	CTED (Provide narrative des	acriation)	
No out of	ter data	collected	
**			20
VI SOURCES OF INFORMATIO	N Consequity of consequence	a Cistalijan (2000)a alausus (apouts)	
		.g., state tiles, samble analysis, recorts)	
VI. SOURCES OF INFORMATION Oreite inspect CIPA+ State Files Laboratory Data		.g., state tiles, samble analysis, recorts)	

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I. IDENT	FICATION
01 STATE	G2 SITE NUMBER
CO	0980635379

L CURRENT OWNER(S) A/A) -	01-++	PARENT COMPANY (fragolicapie)		
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Kenneth Pra	++	02 D+8 NUMBER	OB NAME	0	90+8 NUMBER
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Longmont	COSTATES	80501	12 CITY	13 STATE 1	4 41P CODE
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STREET ADDRESS (P.O. BOX. AFD 0. OC.) 1333 West 120 to		04 SIC CODE	10 STREET AODRESS (P.O. Box. RFO P. stc.)		11 SIC CODE
5 CITY West 120"	Suito 2	07 ZIP CODE	12 CITY	113 STATE!	4 7/9 CODE
nortalin	100 0	80234	12011	1331712	- ZF CODE
1 NAME		02 D+8 NUMBER	OB NAME	. 0	R38MUN 6+0 6
3 STREET ADDRESS (P O. Box, RFD # etc.)		04 SIC CODE	O STREET ADDRESS (P O. Box, RFD r. sic.)		1 1 SIC CODE
95 CITY	06 STATE	07 ZIP CODE	12 GTY	13 STATE 1	4 ZIP CODE
I NAME		02 D+8 NUMBER	OB NAME	0	RESMUN 8+0 6
03 STREET ADDRESS (P. O. Box, AFD #, 500.)		04 SIC CODE	10 STREET ACORESS (P. O. Box, AFD . stc.)	<u> </u>	1 1 SIC CODE
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!!. PPEVICUS DIVINERIS) : ::::::::	the same of the sa		IV. REALTY OWNER(S) / sepucacia sum		
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Y. SOURCES OF INFORMATION ICID	pecific references.	g., state files, sample analysis.	raponsi		
State I tes Facility Contacts					
Facility Contacts					

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I. IDENTIFICATION				
01 STATE	02 SITE NUMBER			
(6)	02 SITE NUMBER D 980635379			

		earfort 7-	10 NAME	# 28	11 D+8 NUMBER
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PFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD F, etc.	.)	13 SIC CODE
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loe.	STATELOT ?	IP CODE	14 CITY	15 STATE	16 ZIP CODE
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1	I. IDENTIFICATION
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II. ON-SITE GENERATOR	and	wall.			
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OT NAME		02 D+8 NUMBER	01 NAME	1	02 D+8 NUMBER
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IV. TRANSPORTER(S)					
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V. SOURCES OF INFORMATION (Cite sa					

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1.	IDENT	TIFICATION
01	STATE	02 SITE NUMBER
1	20	0980635 379

		-	
ST RESPONSE ACTIVITIES	1		-
01 A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION Not reported		*	
01 Z B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION / 1	*		
01 C. PERMANENT WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION	OZ DATE	OS AGENOT	
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
04 DESCRIPTION //	*		
01 E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION //			
	22 24 77	03 AGENCY	
01 C F. WASTE REPACKAGED 04 DESCRIPTION //	02 DATE	US AGENCY	
.,			
01 C 0 1111 CT DODGE C C C 1111 CT 1		03 AGENCY	
01 D G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	US AGENCY	
le car			
01 TH. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 🗔 I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION U			
01 D J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION //	02 DATE	03 AGENCY	
04 DESCRIPTION U		•	
01 C L. ENCAPSULATION	02 DATE	03 AGENCY	
OA DESCRIPTION		·	
O4 DESCRIPTION			
01 M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION //			
D1 Z N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 G. EMERGENCY DIKING/SURFACE WATER DIVERSION	02 DATE	03 AGENCY	
04 DESCRIPTION			
D1 = P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY	I manual from the second second second
04 CESCRIPTION //			
01 □ Q. SUBSURFACE CUTOFF WALL	02 DATE	O3 AGENOV	
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POTENTIAL HAZARDOUS WASTE SITE

I. IDEN	TIFICATION
01 STATE	02 SITE NUMBER
Co	0980635379

⊘ CTA	PART 10 - PAST RESPONSE ACTIVITIES	Co 1098063537
PAST RESPONSE ACTIVITIES (Continued)		
01 GR. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY.
04 DESCRIPTION Next Next	tid	
01 Z S. CAPPING/COVERING	02 DATE	03 AGENCY
04 DESCRIPTION	('	
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	
01 C U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
(1		
01 ☐ V. BOTTOM SEALED	02 DATE	03 AGENCY
04 DESCRIPTION	"	
01 TW. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
04 DESCRIPTION	Cr.	
01 Z. FIRE CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION	11	
01 TY. LEACHATE TREATMENT,	02 DATE	03 AGENCY
04 DESCRIPTION	11	
01 Z. AREA EVACUATED	02 DATE	03 AGENCY
04 DESCRIPTION	4	
01 T 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY
04 DESCRIPTION //	. "	
01 ☐ 2. POPULATION RELOCATED	02 DATE	03 AGENCY
04 DESCRIPTION	11	
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
T. Jaconiii rigit		
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4 4		
SOURCES OF INFORMATION (Cite specific refe	Designs 4.4 State like Sample Sample Sample Sample	
City specific /ale	vanova, a.g., state mas, samule analysis, reponsi	
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER 0980635379

	INFORMA	

01 PAST REGULATORY/ENFORCEMENT ACTION = YES



02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

r PA/WED/Cown ME St

CAIDCAW SOUTH

WID-County
Industrial
Compliance
Incorporated

August 25, 1986

Mr. Danny Souders Western Disposal, Inc. P.O. Box 9100 Boulder, Colorado 80301 Project Number 1-1562

Dear Mr. Souders:

This letter presents the results of a drilling and well-installation program recently completed by Industrial Compliance Incorporated (ICI) at the Western Landfill near Erie, Weld County, Colorado. The program had three primary purposes. First, a monitoring well was installed to augment the existing monitoring system to ensure that it would detect contamination from the current landfill area in a timely fashion. Second, test holes were advanced east of the landfill to try and locate a suitable background monitoring well location. Finally, test holes were drilled along the alignment of the buried drainage to evaluate refuse thickness and the presence or absence of saturation.

Monitoring Well Installation

Ground-water monitoring well GW-11 was drilled to a depth of 58 feet at the location shown in Attachment 1. Bedrock was noted at 5 feet. The materials were all extremely hard and no evidence of saturation was found at any depth. Attachment 2 contains a copy of the lithologic and completion log.

Characterization Activities East of the Landfill

Test holes TH-11, TH-12, and TH-13 were drilled east of the present landfill to verify the presence or absence of refuse and/or ground water (Attachment 1). The holes were drilled through fill along the old drainage alignment to try and locate a zone that was both saturated and uncontaminated so that a background monitoring well could be installed. TH-11 was drilled to 18 feet with no refuse or water encountered. TH-12 was drilled to 23 feet with no refuse or water encountered. TH-13 was drilled to 17 feet with no refuse encountered. A layer of potentially

Mr. Danny Souders Western Disposal, Inc. August 25, 1986 Page 2

contaminated black soil was located and sampled at 16.5 feet. The soil had no odor and did not appear to originate from historic landfilling activities. Water was measured at 14 feet 24 hours after the drilling was completed; however, no well was installed because the black materials might adversely affect the natural ground-water composition.

Two additional test holes, TH-16 and TH-17, were drilled along the southern landfill boundary in an attempt to locate a suitable background ground-water source (Attachment 1). TH-16 was drilled to a depth of 28 feet with bedrock encountered at 7 feet. TH-17 was drilled to 19 feet and bedrock was encountered at 2 feet. Both holes were dry, so no background monitoring well was installed. See Attachment 3 for the geologic logs.

<u>Drilling Activities in the Existing Landfill</u>

Test holes TH-14, TH-15, and TH-18 were drilled to test for soil-cover and refuse thickness and to evaluate the extent of refuse saturation (Attachment-1). TH-14 was drilled to a depth of 58 feet. The cover was 3.5-feet thick and the refuse was saturated below 40 feet. TH-15 was drilled to a depth of 54 feet, with refuse encountered at 6 inches and saturation measured at 40 feet. No bedrock was encountered in either hole. TH-18 was drilled to a depth of 64 feet, with refuse encountered at 1 foot and bedrock at 63 feet. The refuse in TH-18 was unsaturated.

Closing

In summary, GW-11 was installed to monitor a bedrock interval that was not currently monitored by wells GW-8 and GW-9. No background monitoring well was installed because TH-11, TH-12, TH-16, and TH-17 were all dry and TH-13, which did have a saturated zone, contained an unknown material that could potentially affect the natural-water composition. Test holes TH-14, TH-15, and TH-18 had refuse to depths in excess of 60 feet. Holes TH-14 and TH-15 contained refuse that was saturated below a depth of approximately 40 feet. Hole TH-18 contained no saturated refuse.

Mr. Danny Souders Western Disposal, Inc. August 25, 1986 Page 3

Thank you for allowing ICI to complete this work for Western Disposal. Please contact the undersigned if you have any questions or comments on this program.

Sincerely, , INDUSTRIAL COMPLIANCE, INC

Scot A. Donato Geologist

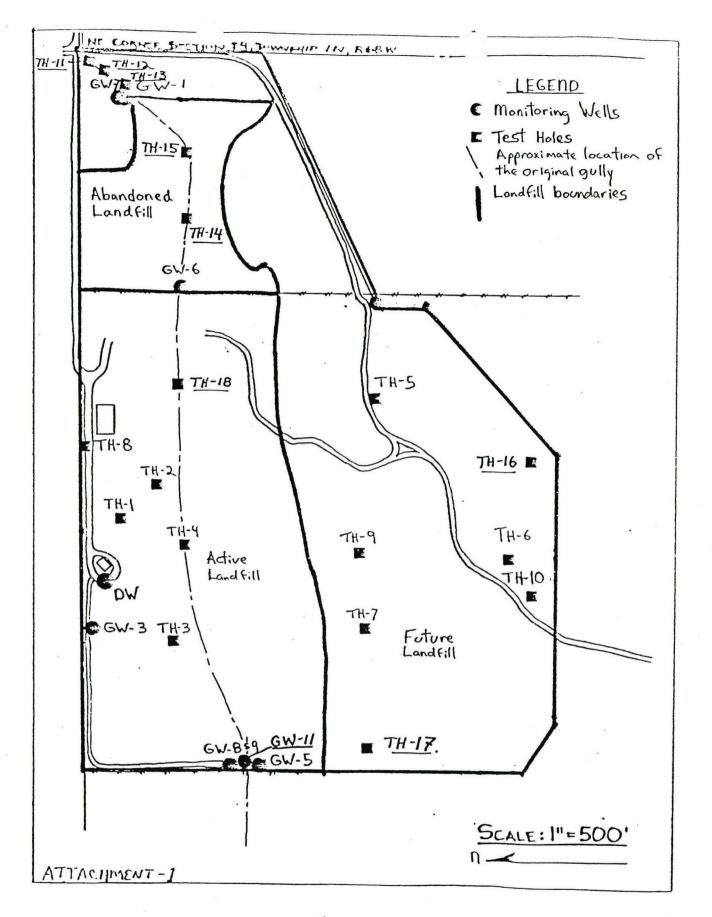
SAD/MHS/bh attachments

Reviewed By:

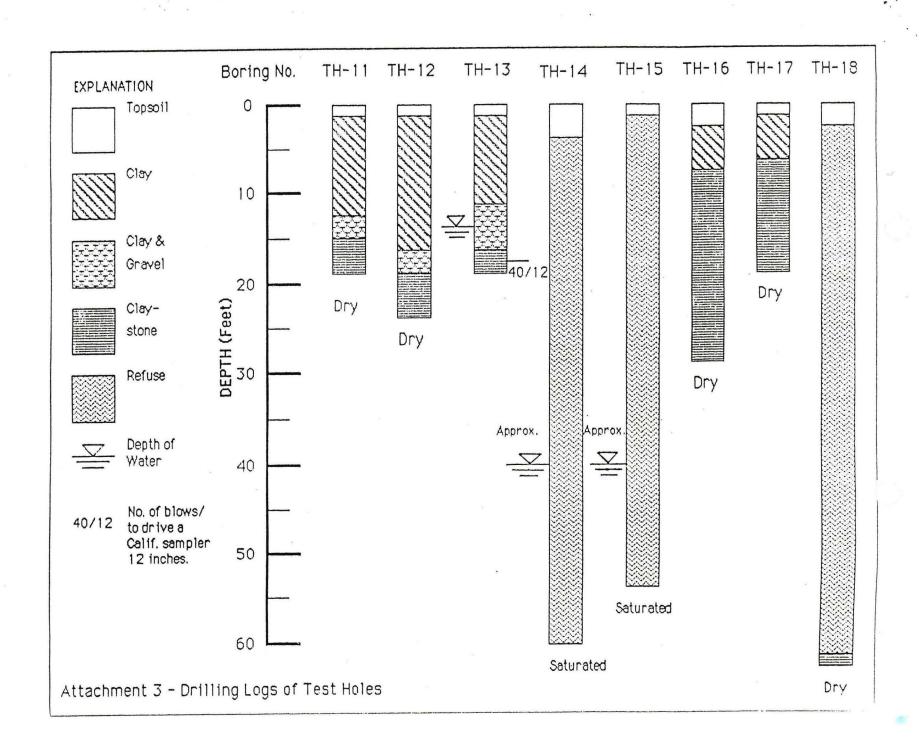
Michael H. Stewart, P.E. Senior Hydrogeologist







Depth	Graphic Log	Lithology and Physical Condition	Well Construction Detail	,	Notes Drilled with a 3.5" continuous flight auger.		
		Clay (CL) slightly silty, slightly moist, medium hard		A STATE	2' Cement seal		
-5		Claystone (CLS) silty to slightly sandy, light brown to brown, slightly moist, stiff to very stiff		Action Section 1	Powdered bentonite plug to 10 feet		
-10		Claystone (CLS) slightly silty to slightly sandy, with possible traces of mica flakes, slightly moist, very stiff to hard Standard Penetration Test (SPT); 30 blows driven/ 7 inches(30/7)		**			
-20		Claystone (CLS) becoming harder, and dark brown to gray brown in color, slightly moist, very hard			Clean native Backfill material		
		Becoming very hard at 23'.			Blank 2" threaded, flush- coupled PVC casing		
-25 -		Becoming less hard at 26'.					
- -30 -		Claystone (CLS) with slightly more clay, slightly moist, very hard					
- 35 -		Becoming harder at 37', and dark brown to red brown in color.		- ·	Bentonite plug		
-40					8/12 Sand pack		
-45					2" threaded flush-coupled PVC casing with 0.02 inch factory cut slots		
50							
-55		* *					
60		TD at 58'.					
Project Western Londfill Type of Rig CME-45							
Date Drilled 8-13-86 Logged By S.A. Dongto							
	SUBSURFACE EXPLORATION LOG Industrial 15955 West 5th Avenue				Job No: 1586 Date: 8-17-86		
Industrial 15955 West 5th Avenue Compliance Golden, Colorado 80401 Incorporated			Figure				



CAIDCAW 5 201-209 5 101-109 dallow well drilled 14 9 Acro 4 Ary 4-120

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> tracture feet of the solution GOALS adquate with f is the will alieted of will.

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2. Allevial 10'-15' screen.

2. Double: cased well 2-5' into barrock

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have xtra 10'; 5' scril section

Back allowide incose wall was not appropriately developed Davidos bail ninimum 5 well volumes

pH temp is 5C w/in 10/s. of

siccessive La Dailes 1-800-247-6294 locate. se Jon Have one 1,8 laws, O sample ERIE in advance of drilling

E sample H2O at time of drilling disposable bailers

2/ 10-20 gran to contact town so their water supply 250 gallons capacity take on rig drilling outcasing for shellows shellows allevial well drilling hollows construction alloid bell, We after dill prior to development 2 dill bedrock sell /14 mo complete construction ech Whoster drill is prior to

Tenacon

